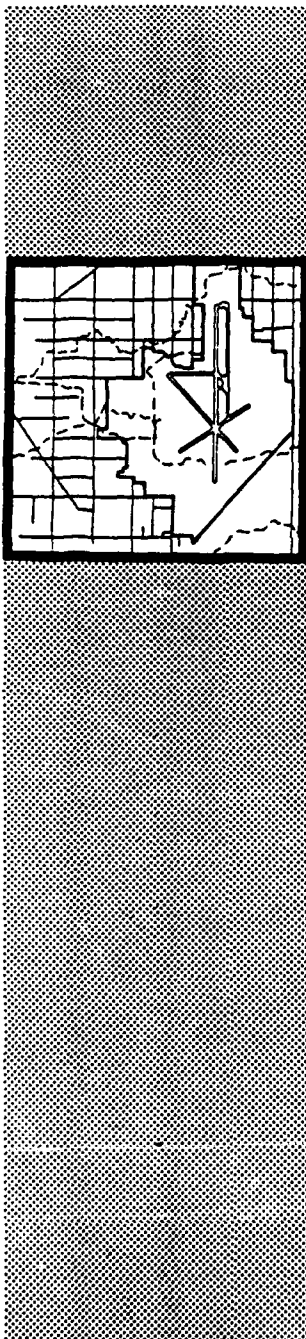


AD-A217 509



**RADIAN**  
CORPORATION

DTIC FILE COPY

①

**INSTALLATION RESTORATION PROGRAM (IRP)  
STAGE 3**

**McCLELLAN AIR FORCE BASE**

PREPARED BY:  
Radian Corporation  
10395 Old Placerville Road  
Sacramento, California 95827

NOVEMBER 1989

**ANNUAL TECHNICAL REPORT  
(JANUARY - DECEMBER 1988)**

FINAL

DTIC  
ELECTE  
JAN 30 1990  
S E D

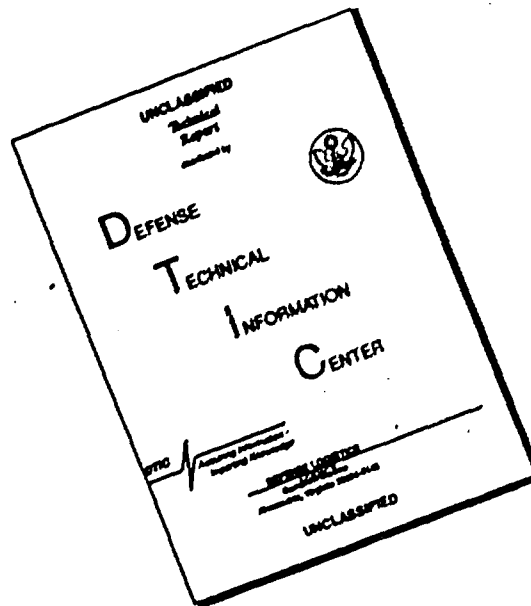
PREPARED FOR:  
HEADQUARTERS AFLC/DEV  
WRIGHT-PATTERSON AFB, OHIO 45433

United States Air Force  
Human Systems Division (AFSC)  
IRP Program Office (HSD/YAOI)  
Brooks Air Force Base, Texas 78235-5000

**DISTRIBUTION STATEMENT A**

Approved for public release;  
Distribution Unlimited

# DISCLAIMER NOTICE



THIS DOCUMENT IS BEST  
QUALITY AVAILABLE. THE COPY  
FURNISHED TO DTIC CONTAINED  
A SIGNIFICANT NUMBER OF  
PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.

**RADIAN**  
CORPORATION

227-005-03  
DCN: 88-227-005-03-90

10395 Old Placerville Road  
Sacramento, CA 95827  
(916) 362-5332



McCLELLAN AFB, CALIFORNIA  
REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM  
ANNUAL TECHNICAL REPORT

FINAL COPY

HEADQUARTERS AFLC/DEV  
WRIGHT-PATTERSON AFB, OHIO 45433

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	

NOVEMBER 1989

Prepared by:

Radian Corporation  
10395 Old Placerville Road  
Sacramento, CA 95827

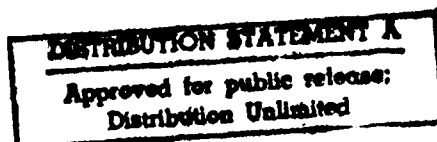
**DTIC**  
**ELECTE**  
**JAN 30 1990**  
**S E D**

AF Contract No.: F33615-87-D-4023, Delivery Order No.: 0003  
AF Project No.: PRJY871502  
Radian Contract No.: 227-005

Human Systems Division (AFSC)  
Installation Restoration Program Office (HSD/YAQI)

Mr. Dale J. Dietzel  
Contracting Officer's Technical Representative

Brooks Air Force Base, Texas 78235-5501



90 01 30 099



#### NOTICE

This annual technical report has been prepared for the United States Air Force for the purpose of aiding in the implementation of a final remedial action plan under the Air Force Installation Restoration Program (IRP). As the annual technical report relates to actual or possible releases of potentially hazardous substances, its release prior to an Air Force final decision on remedial action is in the public interest. The limited objectives of this annual technical report and the ongoing nature of the IRP, along with the evolving knowledge of site conditions and chemical effects of the environment and health, must be considered when evaluating this annual technical report, since subsequent facts may become known which may make this annual technical report premature or inaccurate. Acceptance of this annual technical report in performance of the contract under which it was prepared does not mean that the U.S. Air Force or the Department of Defense adopts the conclusions, recommendations, or other views expressed herein, which are those of the contractor only and do not necessarily reflect the official position of either department.

Copies of this report may be purchased from:

National Technical Information Services  
5285 Port Royal Road  
Springfield, VA 22161



UNCLASSIFIED

SECURITY CLASSIFICATION OF: -

## REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED		1b. RESTRICTIVE MARKINGS N/A	
2a. SECURITY CLASSIFICATION AUTHORITY N/A		3. DISTRIBUTION/AVAILABILITY OF REPORT N/A	
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A		5. MONITORING ORGANIZATION REPORT NUMBER(S) N/A	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) N/A		7a. NAME OF MONITORING ORGANIZATION AFOEHL/TS	
6a. NAME OF PERFORMING ORGANIZATION Radian Corporation	6b. OFFICE SYMBOL (If applicable) N/A	7b. ADDRESS (City, State, and ZIP Code) Brooks Air Force Base, Texas 78235-5501	
8a. NAME OF FUNDING/SPONSORING ORGANIZATION AFOEHL/TS	8b. OFFICE SYMBOL (If applicable) N/A	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER F33615-87-D-4023	
8c. ADDRESS (City, State, and ZIP Code) Brooks Air Force Base, Texas 78235-5501		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO.	PROJECT NO.
		TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) McClellan Air Force Base, California, Remedial Investigation/Feasibility Study Annual Technical Report, Final Copy (Unclassified).			

12. PERSONAL AUTHOR(S)  
Radian Corporation

13a. TYPE OF REPORT FINAL COPY	13b. TIME COVERED FROM 79/8/1 TO 88/12/31	14. DATE OF REPORT (Year, Month, Day) 89/11/08	15. PAGE COUNT 1475
-----------------------------------	--	---	------------------------

16. SUPPLEMENTARY NOTATION  
FINAL COPY

17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
FIELD	GROUP	SUB-GROUP	

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This Annual Technical Report presents the interpretive results for analytical and hydrologic data during groundwater sampling and analysis activities at McClellan AFB from August 1979 through December 1988. The data are used to evaluate the occurrence and migration of groundwater contaminants, to assess uncertainty in the sampling and analytical processes, to identify any hydrologic and analytical trends developing over time and to evaluate the effectiveness of the Area C and Area D extraction systems.

The analytical data were reviewed in terms of specific Quality Assurance and Quality Control (QA/QC) procedures. The analytical data were found to meet and exceed QA/QC objectives. Uncertainties due to sampling and analytical variability were calculated for 8 analytes and were found to be less than 30 percent.

In Area A, contaminants have been detected in the existing wells but the extent of groundwater contamination cannot be determined. In Area B, pumping of on- and off-base water supply wells appears to be the dominant factor affecting groundwater flow directions and contaminant migration. In Area C, the main direction of contaminant migration has been to the south, following the regional groundwater flow direction. In Area D the extraction systems appears to be working effectively to control groundwater flow and prevent off-base migration of contaminants.

20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED	
22a. NAME OF RESPONSIBLE INDIVIDUAL Mr. Dale Dietzel		22b. TELEPHONE (Include Area Code) 1-800-821-4528	22c. OFFICE SYMBOL AFOEHL/TS

DD FORM 1473, 84 MAR

83 APR edition may be used until exhausted.  
All other editions are obsolete.

SECURITY CLASSIFICATION OF THIS PAGE

UNCLASSIFIED

PREFACE

Radian Corporation is the contractor for the Installation Restoration Program (IRP), Stage 3 Remedial Investigation/Feasibility Study (RI/FS) at McClellan Air Force Base (AFB), California. The work is being performed for the AF Occupational and Environmental Health Laboratory (AFOEHL) under AF Contract No. F33615-87-D-4023.

This Annual Technical Report presents the results and interpretation of data collected as part of the Sampling and Analysis Program. The data evaluated include analytical results for groundwater samples collected from monitoring and extraction wells, and groundwater level data measured from wells on and in the vicinity of McClellan AFB. These data were used to evaluate current interim remedial measures and to identify trends developing with time.

Key Radian project personnel were:

Nelson H. Lund, P.E. - Contract Program Manager  
Jack D. Gouge' - Delivery Order Manager  
Morey Lewis - Project Manager  
Deena A. Stanley - Project Director  
Marie T. McCrink - Project Director

Radian acknowledges the cooperation of the McClellan AFB Office of Environmental Management. In particular, Radian acknowledges the assistance of Mr. Mario Ierardi, Mr. Bud Hoda, and Mr. Gerald Robbins, McClellan AFB Point of Contact.

The work presented herein was accomplished between 01 August 1979 and 31 December 1988. Capt. Jerald E. Styles, Technical Services Division, AF Occupational and Environmental Health Laboratory (AFOEHL/TS) was the Technical Program Manager.

Approved

Nelson H. Lund  
Nelson H. Lund P.E.  
Contract Program Manager

**TABLE OF CONTENTS**

<u>Section</u>	<u>Page</u>
EXECUTIVE SUMMARY.....	S-1
1.0 INTRODUCTION.....	1-1
1.1 Study Area.....	1-5
1.2 Local Geology.....	1-7
1.2.1 Soils.....	1-7
1.2.2 Geologic Units.....	1-8
1.3 Local Groundwater Hydrology.....	1-12
1.3.1 Definition of Groundwater System.....	1-13
1.3.2 General Flow Patterns Across the Base.....	1-15
2.0 QUALITATIVE AND QUANTITATIVE STATISTICAL ASSESSMENT OF ANALYTICAL DATA.....	2-1
2.1 Data Quality Assessment.....	2-5
2.2 Descriptions of Data and Statistical Techniques.....	2-28
2.3 Conclusions.....	2-32
3.0 CONTAMINANT DISTRIBUTION AND MIGRATION.....	3-1
3.1 Area A and Adjacent On-Base Areas and the Southeast Area..	3-7
3.1.1 Potential Sources of Groundwater Contamination....	3-8
3.1.2 Hydrogeologic Data.....	3-8
3.1.3 Horizontal and Vertical Distribution of Contaminants.....	3-15
3.1.4 Trend Analysis.....	3-22
3.1.5 Discussion.....	3-22

## TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>Page</u>
3.2 Area B and Adjacent On-Base Areas and the Southwest Area.....	3-24
3.2.1 Potential Sources of Groundwater Contamination....	3-25
3.2.2 Hydrogeologic Data.....	3-30
3.2.3 Horizontal and Vertical Distribution of Contaminants.....	3-33
3.2.4 Trend Analysis.....	3-41
3.2.5 Discussion.....	3-44
3.3 Area C and Adjacent On-Base Areas.....	3-48
3.3.1 Potential Sources of Groundwater Contamination....	3-49
3.3.2 Hydrogeologic Data.....	3-49
3.3.3 Horizontal and Vertical Distribution of Contaminants.....	3-56
3.3.4 Trend Analysis.....	3-58
3.3.5 Discussion.....	3-69
3.4 West Area.....	3-73
3.4.1 Potential Sources of Groundwater Contamination....	3-73
3.4.2 Hydrogeologic Data.....	3-76
3.4.3 Horizontal and Vertical Distribution.....	3-76
3.4.4 Trend Analysis.....	3-76
3.4.5 Discussion.....	3-83
3.5 Area D and Adjacent On-Base Areas and the Northwest Area..	3-83
3.5.1 Potential Sources of Groundwater Contamination....	3-84
3.5.2 Hydrogeologic Data.....	3-84
3.5.3 Contaminant Distribution.....	3-91
3.5.4 Trend Analysis.....	3-97
3.5.5 Discussion.....	3-111
3.6 Other On-Base Areas.....	3-117
3.7 Northeast Area.....	3-117

## TABLE OF CONTENTS (Continued)

<u>Section</u>	<u>Page</u>
4.0 RECOMMENDATIONS.....	4-1
REFERENCES.....	R-1
<u>Appendices</u>	<u>Page</u>
A-1 McClellan AFB, Groundwater Monitoring Network.....	A-1
A-2 Well-Specific Data for Network Monitoring Wells Located on and in the Vicinity of McClellan AFB.....	A-3
A-3 Well-Specific Data for Extraction Wells Located on McClellan AFB.....	A-10
A-4 Site Specific Information for Confirmed Sites, Partially Studied Potential Release Locations, and Unstudied Potential Release Locations at McClellan AFB.....	A-11
B-1 Compilation of Available Sample Analyses for Wells Located On or In the Vicinity of McClellan AFB.....	B-1

## LIST OF TABLES

<u>Table</u>	<u>Page</u>
2-1 Uncertainty Estimates and Correlation Coefficients for Selected Analytes based on Field Duplicate Results.....	2-9
2-2 Correlation Coefficients for Selected Analytes Determined from Field Duplicate Results.....	2-13
2-3 Analysis of Variance Results for Nested Duplicate Samples.....	2-24
2-4 Matrix Spike Recoveries.....	2-26
3-1 Monitoring Wells Located in Area A and Adjacent On-Base Areas.....	3-10
3-2 Monitoring Wells Located in the Southeast Area.....	3-11
3-3 Horizontal Gradients of Selected Well Pairs in Area A and the Southeast Area.....	3-16
3-4 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in Area A and Adjacent On-Base Areas.....	3-17
3-5 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in the Southeast Area.....	3-18
3-6 Monitoring Wells Located in Area B and Adjacent On-Base Areas.....	3-27
3-7 Monitoring Wells Located in the Southwest Area.....	3-28
3-8 Gradients of Selected Well Pairs in Area B and the Southwest Area.....	3-34
3-9 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in Area B and Adjacent On-Base Areas....	3-35
3-10 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in the Southwest Area.....	3-36
3-11 Monitoring Well Located in Area C and Adjacent On-Base Areas.....	3-50
3-12 Extraction Wells Located in Area C.....	3-51

## LIST OF TABLES

<u>Table</u>	<u>Page</u>
3-13 Gradients of Selected Well Pairs in Area C.....	3-57
3-14 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in Area C and Adjacent On-Base Areas....	3-59
3-15 Monitoring Wells Located in the West Area.....	3-75
3-16 Horizontal and Vertical Gradients for Selected Monitoring Wells Located in the West Area.....	3-77
3-17 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in the West Area.....	3-78
3-18 Monitoring Wells in Area D and Adjacent On-Base Areas.....	3-89
3-19 Monitoring Wells in the Northwest Area.....	3-90
3-20 Head Differences and Gradients of Selected Well Pairs in Area D.....	3-92
3-21 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in Area D and Adjacent On-Base Areas....	3-93
3-22 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in the Northwest Area.....	3-94
3-23 Area D and Northwest Area Monitoring Wells with Decreasing Trends in Concentrations at 90% Confidence Level.....	3-108
3-24 Monitoring Wells Located in Other On-Base Areas.....	3-114
3-25 Ranges of Detectable Concentrations for Key Analytes in Monitoring Wells Located in Other On-Base Areas.....	3-118
3-26 Monitoring Wells Located in the Northeast Area.....	3-119

## LIST OF FIGURES

<u>Figure</u>	<u>Page</u>
S-1 Ten Geographic Designations of the Study Area.....	S-3
S-2 Time Series Plots for Selected Area D and Northwest Area Wells..	S-7
1-1 Ten Geographic Designations of the Study Area.....	1-6
1-2 Schematic Geologic Cross Section of the Sacramento Valley.....	1-9
1-3 Subsurface Profile Regional Section: Area A to Area B.....	1-10
1-4 Subsurface Profile Regional Section: Area D to Area B.....	1-11
1-5 Water-Level Measurements for Fall 1977 Showing Large Groundwater Depression in the Vicinity of McClellan AFB.....	1-17
2-1 Uncertainty Estimates (95 percent) for Selected Analytes.....	2-2
2-2 Plots of Field Duplicate Results for TCE, 1,1-DCE, 1,1-DCA and Total 1,2-DCE.....	2-11
2-3 Plots of Field Duplicates Results for PCE, Chloroform, 1,2-DCA and 1,1,1-TCA.....	2-12
2-4 RPD Frequency Plot for 1,1,1-TCA.....	2-16
2-5 RPD vs. Concentration Plots for TCE, 1,1-DCE and 1,1-DCA.....	2-17
2-6 RPD vs. Concentration Plots for Total 1,2-DCE, PCE and Chloroform.....	2-18
2-7 RPD vs. Concentration Plots for 1,2-DCE and 1,1,1-TCA.....	2-19
2-8 Total Uncertainty Estimates by Sampling Event.....	2-21
2-9 Graphs of Matrix Spike Recoveries with Warning and Control Limits.....	2-27
3-1 Locations of Discussion Areas.....	3-2
3-2 Hydrogeologic Stick Diagram of Selected Wells.....	3-4
3-3 Wells Located in Area A and Adjacent On-Base Areas, and the Southeast Area.....	3-9
3-4 Confirmed Sites, Partially Studied Potential Release Locations, & Unstudied Potential Release Locations in Area A.....	3-12



## LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
3-5 Subsurface Profile, Area A.....	3-14
3-6 Historical and Present Occurrence of TCE in Shallow Zone Monitoring Wells, Area A and the Southeast Area.....	3-19
3-7 Historical and Present Occurrence of TCE in the Middle Zone Monitoring Wells, Area A and the Southeast Area.....	3-20
3-8 Historical and Present Occurrence of TCE in the Deep "A" Zone Monitoring Wells, Area A and the Southeast Area.....	3-21
3-9 Wells located in Area B and Adjacent On-Base Areas, and the Southwest Area.....	3-26
3-10 Confirmed Sites, Partially Studied Potential Release Locations, & Unstudied Potential Release Locations in Area B.....	3-29
3-11 Subsurface Profile, Area B.....	3-31
3-12 Historical and Present Occurrence of TCE in Shallow Zone Monitoring Wells, Area B and the Southwest Area.....	3-37
3-13 Historical and Present Occurrence of TCE in Middle Zone Monitoring Wells, Area B and the Southwest Area.....	3-38
3-14 Historical and Present Occurrence of TCE in Deep "A" Monitoring Wells, Area B and the Southwest Area.....	3-39
3-15 Historical and Present Occurrence of TCE in Deep "B" Monitoring Wells, Area B and the Southwest Area.....	3-40
3-16 Time Series Plots for MW-120, (Area B).....	3-42
3-17 Time Series Plots for MW-41S and MW-1021 (Area B and Southwest Area).....	3-43
3-18 Time Series Plots for MW-132 and MW-63 (Area B).....	3-45
3-19 Wells Located in Area C and Adjacent On-Base Areas.....	3-52

## LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
3-20 Confirmed Sites, Partially Studied Potential Release Locations & Unstudied Potential Release Locations in Area C.....	3-53
3-21 Subsurface Profile, Area C.....	3-55
3-22 Historical and Present Occurrence of TCE in Shallow Zone Monitoring Wells, Area C and Adjacent On-Base Areas.....	3-60
3-23 Historical and Present Occurrence of TCE in Middle Zone Monitoring Wells Area C, and Adjacent On-Base Areas.....	3-61
3-24 Historical and Present Occurrence of TCE in Deep "A" Zone Monitoring Wells Area C, and Adjacent On-Base Areas.....	3-62
3-25 Historic and Present Occurrence of TCE in Deep "B" Zone Monitoring Wells, Area C, and Adjacent On-Base Areas.....	3-63
3-26 Time Series Plots for MW-36S and MW-44S (Area C and Adjacent On-Base Areas).....	3-64
3-27 Time Series Plots for MW-33S, MW-128 and MW-131 (Area C and Adjacent On-Base Areas).....	3-65
3-28 Time Series Plots for MW-111, and MW-130 (Area C and Adjacent On-Base Areas).....	3-66
3-29 Time Series Plots for MW-134 (Area C and Adjacent On-Base Areas).....	3-67
3-30 Wells Located in the West Area.....	3-74
3-31 Historical and Present Occurrence of TCE in Shallow Zone Monitoring Wells, West Area.....	3-79
3-32 Historical and Present Occurrence of TCE in Middle Zone Monitoring Wells, West Area.....	3-80
3-33 Historical and Present Occurrence of TCE in Deep "A" Zone Monitoring Wells, West Area.....	3-81
3-34 Time Series Plots for MW-1036 (West Area).....	3-82

## LIST OF FIGURES (Continued)

<u>Figure</u>	<u>Page</u>
3-35 Wells Located in Area D and Adjacent On-Base Areas.....	3-85
3-36 Wells Located in the Northwest Area.....	3-86
3-37 Subsurface Profile, Area D.....	3-87
3-38 Historical and Present Occurrence of TCE in Shallow Zone Monitoring Wells, Area D and Adjacent On-Base Areas.....	3-95
3-39 Historical and Present Occurrence of TCE in Shallow Zone Monitoring Wells, Northwest Area.....	3-96
3-40 Historical and Present Occurrence of TCE in Middle Zone Monitoring Wells, Area D and Adjacent On-Base Areas.....	3-98
3-41 Historical and Present Occurrence of TCE in Middle Zone Monitoring Wells, Northwest.....	3-99
3-42 Historical and Present Occurrence of TCE in Deep "A" Zone Monitoring Wells, Area D and Adjacent On-Base Areas.....	3-100
3-43 Historical and Present Occurrence of TCE in Deep "A" Zone Monitoring Wells, Northwest Area.....	3-101
3-44 Time Series Plots for MW-91 and MW-1002 (Area D and Northwest Area.....	3-102
3-45 Time Series Plots for MW-1004 (Northwest Area).....	3-104
3-46 Time Series Plots for MW-1005 (Northwest Area).....	3-105
3-47 Concentration Versus Time Graphs for MW-10, MW-11, MW-12, MW-14, and MW-15.....	3-106
3-48 Time Series Plots for MW-89 (Area D and Adjacent On-Base Areas)..	3-107
3-49 Time Series Plots for MW-53 and MW-54 (Area D and Adjacent On-Base Areas).....	3-109
3-50 Time Series Plots for MW-55 (Area D and Adjacent On-Base Areas)..	3-110
3-51 Time Series Plots for MW-59 (Area D and Adjacent On-Base Areas)..	3-112

LIST OF FIGURES (Continued)

Plates

- 1 Well Location Map.
- 2 Potentiometric Maps for the Shallow Monitoring Zone.
- 3 Potentiometric Maps for the Middle Monitoring Zone.
- 4 Potentiometric Maps for the Deep "A" Monitoring Zone.
- 5 Estimated TCE Concentration Contours for the Shallow Monitoring Zone.
- 6 Estimated TCE Concentration Contours for the Middle Monitoring Zone.
- 7 Estimated TCE Concentration Contours for the Deep "A" Monitoring Zone.

EXECUTIVE SUMMARY

This annual technical report examines the analytical and hydrologic data collected through December 1988 under the Groundwater Sampling and Analysis Program. The objectives of this examination are to:

- Summarize the analytical and hydrologic data;
- Characterize the analytical data in terms of uncertainty and seasonality;
- Evaluate the past and present occurrence of the most commonly detected analytes;
- Identify analytical trends and groundwater flow patterns in local areas of the base; and
- Evaluate the effectiveness of the two extraction systems located in Areas C and D.

Background

Past disposal practices and activities involving solvents such as trichloroethene (TCE) at McClellan Air Force Base (AFB) have resulted in contamination of the groundwater beneath McClellan AFB. Groundwater samples from several water supply wells, located both on and off base have contained chemical compounds at concentrations exceeding state or federal drinking water standards. In order to address the groundwater contamination problem, McClellan AFB began a Remedial Investigation/Feasibility Study (RI/FS) process in 1979. Remedial investigations have focused on characterizing the problem, and collecting data on the existence and extent of contamination. Feasibility study activities involve assessing, selecting and implementing suitable technologies to solve the environmental and health risk problems identified under the remedial investigation.

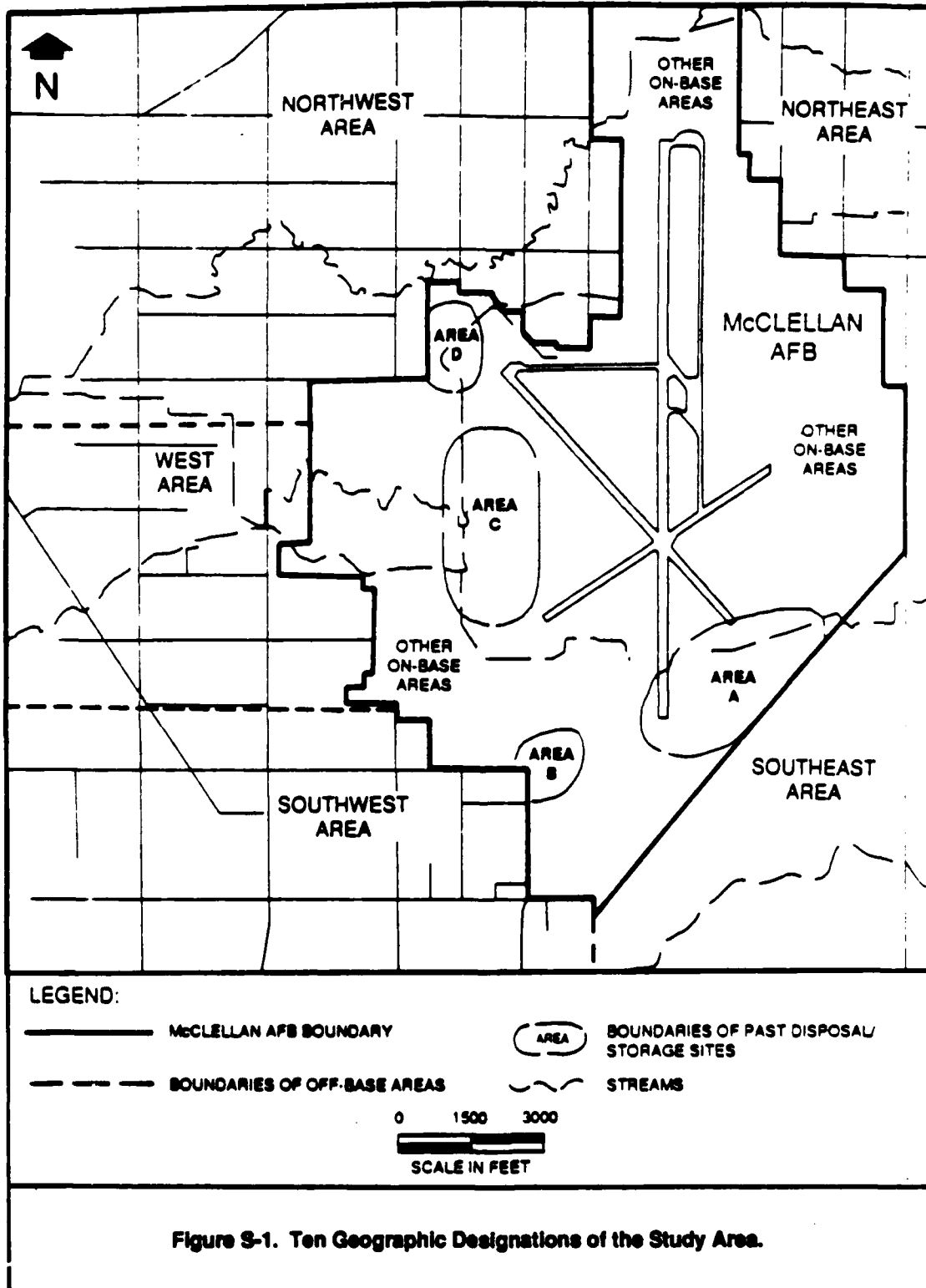
Groundwater samples and water level data have been collected every three months from monitoring wells located on and off base since 1985. These data have been collected under the Groundwater Sampling and Analysis Program and are an important part of the ongoing remedial investigations. The analytical and hydrologic data collected over the three month-period have been presented in quarterly reports and data summaries. This annual technical report looks at all the quarterly data collected since 1985 in order to assess the lateral and vertical extent of the groundwater contamination. It also identifies the movement of the contaminants and important factors affecting groundwater flow and contaminant migration.

### Findings

The first step of this technical investigation is to establish the quality of the analytical data. The analytical data are reviewed in terms of the Quality Assurance and Quality Control (QA/QC) procedures specified in the Quality Assurance Project Plan (QAPP) (Radian, Draft Copy, October 1988). The distribution of analytical results do not follow the typical pattern of a bell-shaped curve. Thus, specific statistical procedures for non-normally distributed data are used to evaluate analytical trends.

The sampling and analytical variability associated with each of the most commonly detected contaminants were determined. The most commonly detected groundwater contaminants include TCE, tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA) total 1,2-dichloroethene (total 1,2-DCE) 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethene (1,1-DCE) 1,1-dichloroethane and chloroform. The total uncertainties due to sampling and analytical variability calculated for these eight contaminants were all less than 30 percent. For every reported concentration for these analytes, there is an uncertainty of less than 30 ± percent.

The analytical data and hydrologic factors were discussed for each of 10 geographic areas. These areas, shown in Figure S-1, include five on-base areas (Area A, Area B, Area C, Area D, and other On-Base Areas), and



0388-033-11

five off-base areas (Southeast, Southwest, West, Northwest, and Northeast). The discussion for each area includes potential sources of groundwater contaminants, local groundwater flow directions, influences on groundwater flow directions, hydraulic gradients, past and present occurrences of contaminants, analytical trend analysis, and apparent migration of contaminants.

In Area A and the Southeast Area, there is a limited number of monitoring wells; thus the local groundwater flow is poorly defined and water quality data are available for only certain parts of these areas. Historical analytical data from monitoring wells that are now dry, and recent analytical data from the few remaining monitoring wells indicate that contaminants are present in the shallow and middle monitoring zones. Detected contaminants include TCE, chloroform, and total 1,2-DCE. Concentrations of contaminants detected in monitoring wells range up to 198 ug/L, 19 ug/L and 34 ug/L, respectively. In addition, carbon tetrachloride has been consistently detected in one middle zone monitoring well at concentrations of approximately 8.5 ug/L. Because there are no deep wells in Area A, the vertical extent of groundwater contamination cannot be assessed. Additional wells are to be installed in Area A with the Preliminary Groundwater Operable Unit Remedial Investigation (PGOURI) (Radian, March 1989), which will aid in this assessment.

In Area B and the Southwest Area, high levels of TCE and total 1,2-DCE (above state and federal drinking water standards) have been detected in shallow, middle, and deep monitoring zones. The concentrations of TCE range up to 2,990 ug/L. Contaminants appear to be following the regional groundwater flow direction from the north to the south. Samples from shallow and middle zone monitoring wells located approximately 1,200 feet west of Area B have contained low levels of TCE. Pumping by the base water supply well BW-18 appears to have influenced contaminant distribution and migration by affecting local groundwater flow. Trichloroethene has been detected in samples from BW-18. A wellhead treatment system for organic compounds has been in place at BW-18 since mid-1985. Treated water from BW-18 is sampled weekly to ensure no detectable contaminants are present in the base potable water supply.



In Area C, contaminants including TCE, 1,2-DCA and total 1,2-DCE have been detected in the shallow, middle, deep "A" and deep "B" monitoring zones. The highest level of contamination has been detected immediately south of the Industrial Wastewater Treatment Plant (IWTP). Trichloroethene concentrations ranged up to 52,000 ug/L. Contaminants appear to be migrating south as a result of the regional gradient caused by pumping of on-and off-base water supply wells. Pumping of an extraction system in Area C began in August 1988. The extraction system consists of four extraction wells screened in the middle deep "A" and deep "B" monitoring zones. The present screen depths and configuration of monitoring wells in Area C do not provide data for an evaluation of the effect of groundwater extraction on local hydraulic gradients. There are limited analytical data collected since the extraction system was initiated in the summer of 1988. Data collected to-date will provide a baseline for assessments of future analytical results.

Low levels of TCE, total 1,2-DCE and chloroform (below state and federal drinking water standards) have been detected in two shallow zone monitoring wells located in the West Area. One of these wells is located approximately 2,200 feet west of McClellan AFB. The TCE concentrations in this well presently show a decreasing trend. Groundwater flow in the West Area is presently toward the base, thus there is limited potential for off-base migration of contaminants.

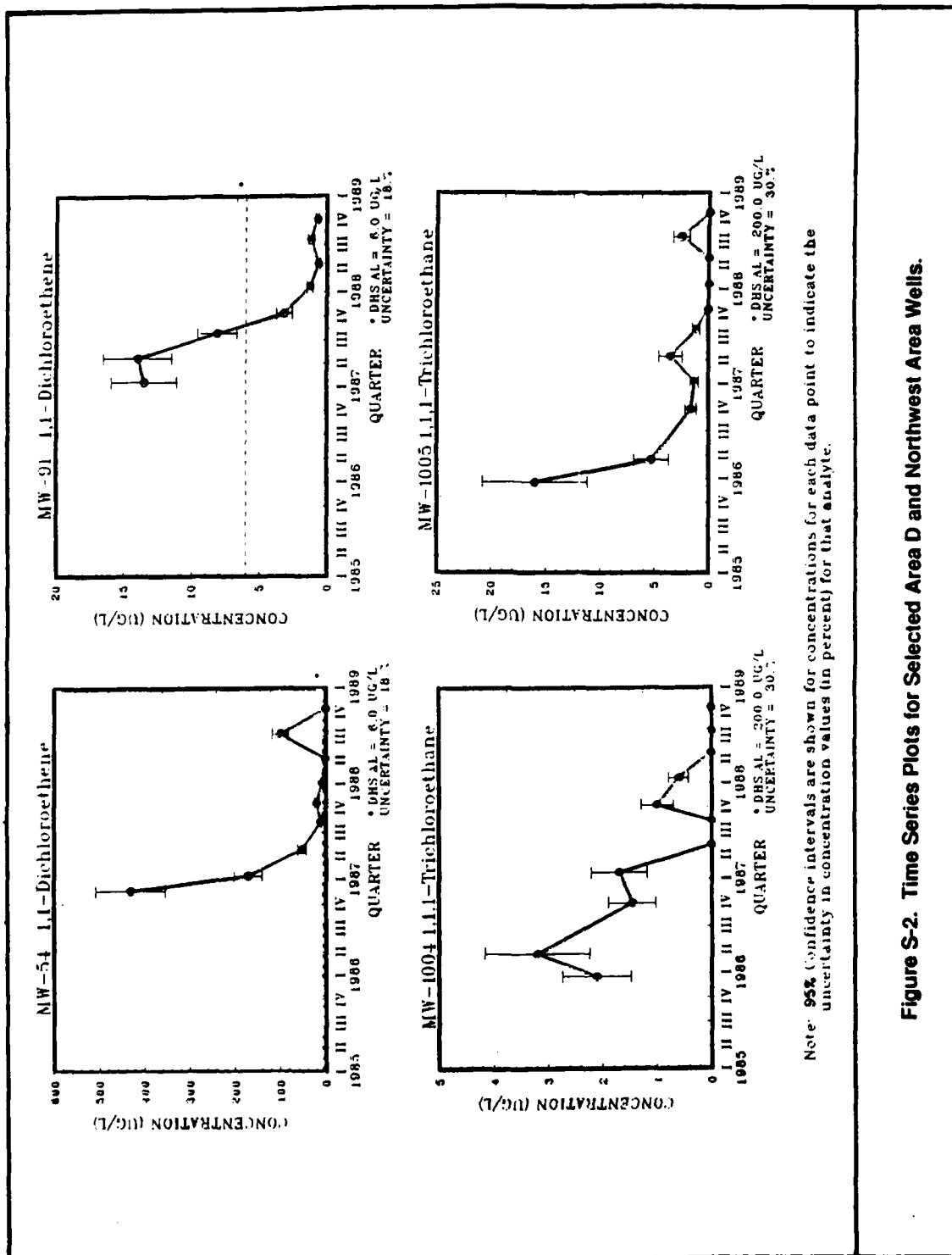
In Area D and the Northwest Area, the major factor affecting groundwater flow directions and thus, contaminants movement is the Area D extraction system. The extraction system, in operation since March 1987, appears to be effectively controlling the local groundwater flow direction, as indicated by the potentiometric surface maps for the shallow and middle monitoring zones (Plates 2 and 3). Groundwater flow directions in the deep monitoring zone also appear to be affected by the extraction system. Decreasing concentration trends have been detected for TCE, 1,1,1-TCA, 1,2-DCA, 1,1-DCE and 1,1-DCA in three off-base shallow zone monitoring wells. Decreasing concentrations have also been detected for the same analytes in three on-base monitoring wells screened in the middle and deep zones. As an example of these decreasing

trends, time series plots for three off-base monitoring wells (MW-91, MW-1004 and MW-1005) and one on-base monitoring well (MW-54) are presented in Figure S-2). Concentrations of TCE have ranged up to 26,600 ug/L in shallow zone monitoring wells during 1988.

#### Recommendations

Based on the findings of this report, several limitations of the existing data and monitoring well network were identified. In Area A and the Southeast Area, additional water level and analytical data sampling points are needed to define groundwater flow and the extent of contamination. In Area B and the Southwest Area, there is a lack of data to identify the potential for off-base groundwater and contaminant movement. There is also a lack of data to define groundwater flow patterns between Area B and Area C. Additional monitoring wells are needed to describe the extent of contamination and to assess contaminant movement. In Area C, additional monitoring wells are needed to determine the effectiveness of the extraction system on controlling groundwater flow and contaminant migration.

Specific recommendations to address these data limitations are not included in this report because other Remedial Investigation/Feasibility Study (RI/FS) activities have been initiated to provide additional information or because these recommendations have been made previously in other quarterly reports and data summaries. (Radian Quarterly Reports from Fourth Quarter 1987 through Third Quarter 1988, and Data Summary, October through December 1988). As part of the PGOURI (Radian, March 1989), additional monitoring wells and piezometers will be installed to provide water quality and hydrogeologic data in the areas identified above. The PGOURI (Radian, March 1989) identifies the specific locations and screened intervals of these monitoring wells and piezometers. As conditions change, such as the pumping rates or schedules of water supply wells, additional hydrologic and analytical data may be needed to define the groundwater contamination problem.



**Figure S-2. Time Series Plots for Selected Area D and Northwest Area Wells.**

## 1.0 INTRODUCTION

This report is the second in a series of technical reports written periodically to interpret data obtained from the Groundwater Sampling and Analysis Program at McClellan Air Force Base (AFB), California. The previous technical report (Semiannual Informal Technical Report, September 1988) presented data collected by Radian Corporation (Radian) and other contractors from 1981 to March 1988. This report includes data collected from 1981 through December 1988.

McClellan AFB was established in 1936 as a repair depot and supply base for the War Department (predecessor of the Department of Defense). McClellan AFB was and continues to be involved in operations that require the use of industrial solvents, cleaners, chemicals, fuels, oils, and lubricants. In the past, many of these materials contained toxic and hazardous substances that were buried in waste pits located predominantly along the western edge of the base. These disposal practices were discontinued in the 1970s and in 1979 the first groundwater investigations began at McClellan AFB. Analysis of samples collected from selected on-and off-base water supply wells indicated contaminant levels high enough to shut down production from several wells. By 1985, site characterization studies confirmed that hazardous substances from past disposal activities had entered the groundwater at certain areas within the base boundaries.

In order to remediate contaminated groundwater problems, the United States Environmental Protection Agency (U.S. EPA) has established a specific sequence of actions for responding to the release of a hazardous substance into the environment. This sequence is called the remedial investigation/feasibility study (RI/FS) process. The remedial investigation phase focuses on site characterization, which involves the collection of all necessary data to determine the magnitude and extent of contamination. The feasibility study phase involves researching and selecting suitable technologies for solving the contamination problem identified by the remedial investigation.

Activities and goals of the McClellan AFB Groundwater Sampling and Analysis Program address parts of both the Remedial Investigation and the Feasibility Study processes. The Sampling and Analysis Program was initiated to identify and evaluate the extent of groundwater contamination beneath and in the vicinity of the base boundaries. Groundwater evaluation addresses one aspect of the site characterization process in a remedial investigation. To address the feasibility study phase of the process, the Air Force implemented several interim remediation measures. These included converting residences with affected water wells from private to municipal water supplies, installing a synthetic liner and clay cap at one on-base location, and installing groundwater extraction systems at two on-base locations. Quarterly groundwater sampling and analysis, and ongoing evaluation of other remediation measures are part of a continuous effort in support of the RI/FS activities at McClellan AFB.

This technical report has five primary objectives:

- Summarize analytical and hydrologic data;
- Evaluate sampling and analytical uncertainty;
- Evaluate occurrence and migration of contaminants;
- Identify and interpret analytical and hydrologic trends; and
- Evaluate the effectiveness of the Area D and Area C extraction systems.

The first objective is to summarize analytical and hydrologic data that were collected from 1981 to the end of 1988. Analytical data that were collected by contractors who preceded Radian can only be used to qualitatively evaluate the historical occurrence of contaminants. This is because the quality assurance/quality control (QA/QC) data and procedures could not be evaluated for those data. In mid-1985, Radian began installing and sampling

monitoring wells off base and in perimeter areas of the base. Since then, all Radian-collected data have been validated using strict QA/QC procedures and can be used to quantitatively assess groundwater contamination problems at McClellan AFB. Hydrologic data collected by Radian and previous contractors can be used to estimate aquifer parameters. Greater confidence is placed on those results from multiple-well aquifer tests. Summaries of existing analytical and hydrologic data are discussed by areas in Section 3, Contaminant Distribution Migration. Meanwhile, new analytical and hydrologic data will be collected throughout 1989. The Preliminary Groundwater Operable Unit Remedial Investigation (PGOURI) has approximately 80 new monitoring wells scheduled to be installed and 42 aquifer tests planned (Radian, October 1988).

The second objective of this report is to evaluate sampling and analytical uncertainty. Some amount of uncertainty is inherent in any environmental measurement system and must be quantified before results can be considered valid. Once the data are validated, they can be used to identify increases or decreases in contaminant concentrations. Section 2, Qualification and Statistical Analysis of Data, addresses this topic.

The third objective of this report is to evaluate the occurrence and migration of selected contaminants. The most commonly detected contaminants include trichloroethene (TCE), tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), total 1,2-dichloroethene (total 1,2-DCE), 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethane (1,1-DCA), 1,1,1-trichloroethane (1,1,1-TCA), vinyl chloride, chloroform, and carbon tetrachloride. Section 3, Contaminant Distribution and Migration, identifies by area and monitoring zone, the historic and current presence of these key contaminants. Potential sources in each area that may affect contaminant distribution, and hydrogeologic factors that influence horizontal and vertical migration of contaminants are summarized. Compilation of these data has been essential in helping to define the general areas of contamination and possible migration pathways. This information, in turn, has been used in establishing preliminary areas that may require groundwater operable units.

Once data have been validated and contaminant distribution has been evaluated, the fourth objective is to identify and interpret hydrologic and analytical trends. Hydrologic trends refer to the variations in groundwater flow directions. Locally, upward or downward vertical hydraulic gradients, horizontal hydraulic gradients, and radial flow-patterns can be determined. Analytical trends refer to statistically significant patterns of increasing or decreasing concentrations with time for the key contaminants listed above. Both hydrologic and analytical trends are addressed in Section 3, Contaminant Distribution and Migration. These trends can be interpreted to identify contaminant migration, assess the effects of pumping of water supply wells, and help evaluate future remedial measures. This objective is crucial in assessing the risks to public health and the environment, an overriding goal of the Sampling and Analysis Program and the RI/FS process.

The fifth and final objective of this report is to evaluate the effectiveness of the Area D and Area C extraction systems. The Area D extraction system has been in operation since March of 1987 and appears to be effectively controlling groundwater from flowing off-base in that area. The Area C extraction system became operational on 29 August 1988, but cannot be evaluated with the spatial locations of the present monitoring wells and the depths of the well screens. The limitations of the existing monitoring wells are discussed more thoroughly in Section 3.3. To remedy this, the installation of 25 piezometers and 4 monitoring well clusters is planned as part of the Preliminary Groundwater Operable Unit Remedial Investigation (PGOURI) (Radian, March 1989). Both of the extraction systems are reviewed in Section 3.0.

The available analytical data are used both qualitatively and quantitatively depending on when the data was collected. Radian's contract with the United States Air Force Occupational and Environmental Health Laboratory (AFOEHL) commenced in mid-1985. Prior to this, several other contractors had compiled analytical data from groundwater monitoring wells at McClellan AFB. These data have been useful in qualitatively evaluating the extent of groundwater contamination in the recent past. However, for the purpose of statistical analyses and data interpretation, only data collected

since the Second Quarter 1985 were used. The QA/QC procedures used by previous contractors could not be verified. In addition, the majority of monitoring wells have been sampled continuously only since Radian began work in mid-1985.

#### 1.1 Study Area

The study area for the Groundwater Sampling and Analysis Program has been divided into 10 geographic areas as illustrated in Figure 1-1. Five areas are located on base and five are located off base. Designated areas are for the purpose of discussion only and are not intended to represent formal boundaries. Work is currently underway to identify areas that may require groundwater operable units. In future reports, discussions will be based on preliminary groundwater operable units instead of the 10 geographic areas.

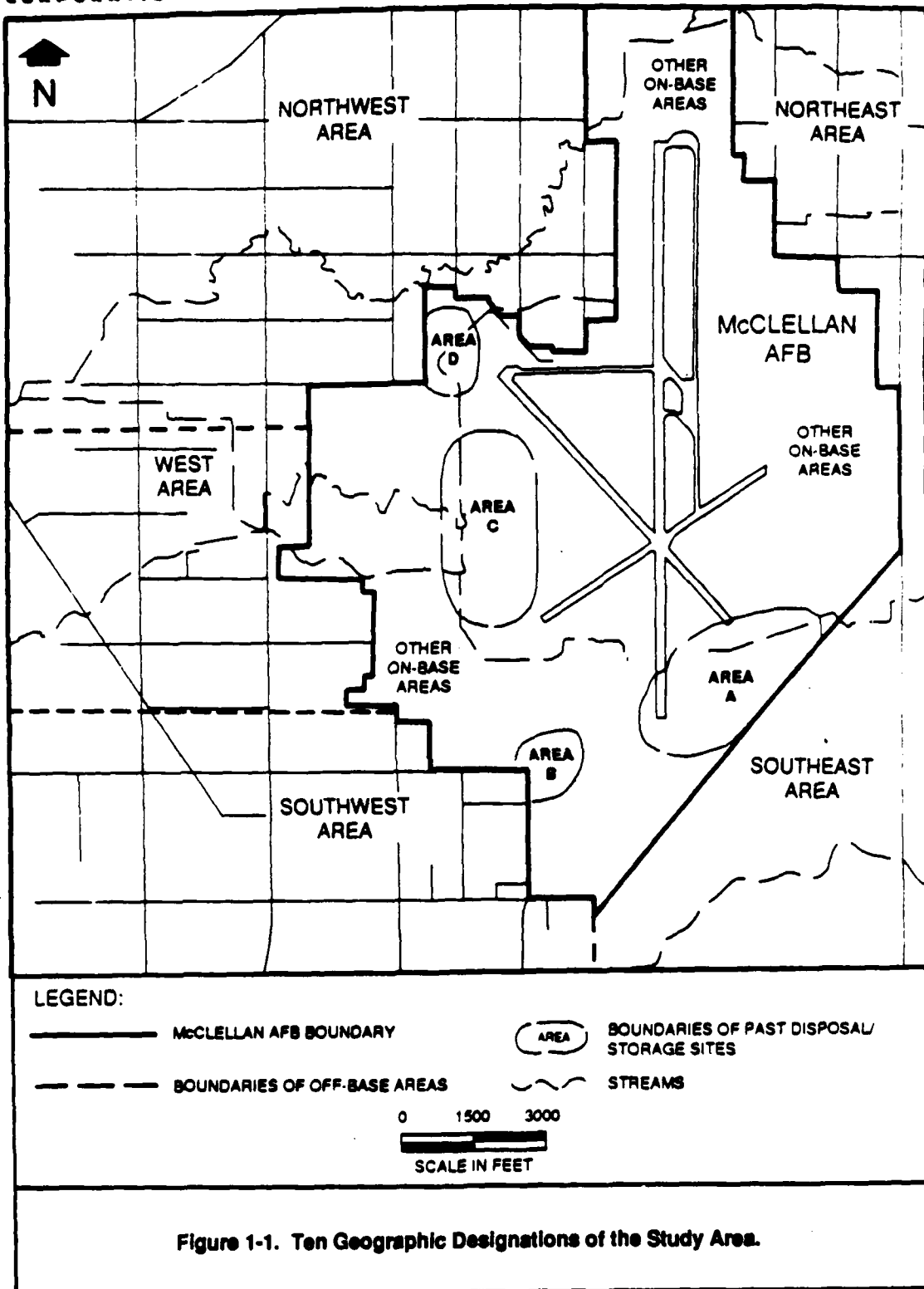
Four general areas of historical on-base waste disposal and storage sites were identified and designated Areas A, B, C, and D during the Phase I Installation Restoration Program studies. In addition to the sites located within these areas, there are potential sources of hazardous material that are adjacent to Areas A, B, C, and D. They are designated as being within an "Adjacent On-Base Area" of Area A, B, C, or D. Other areas that are not close to or within one of the four areas are designated as "Other On-Base Areas."

The five geographic on-base areas are as follows:

- Area A and Adjacent On-Base Areas;
- Area B and Adjacent On-Base Areas;
- Area C and Adjacent On-Base Areas;
- Area D and Adjacent On-Base Areas; and
- Other On-Base Areas.

The five geographic off-base designations have been chosen for the purpose of discussion only. These designations are not meant to imply that groundwater contaminants detected within these areas have been traced to any





0388-033-11

particular on-base area. The five geographic off-base areas are as follows:

- Northeast Area;
- Northwest Area;
- West Area;
- Southwest Area; and
- Southeast Area.

## 1.2 Local Geology

McClellan AFB is located near the eastern edge of the Sacramento Valley in northern California. The Sacramento Valley is a large north-south trending synclinal trough filled with approximately 60,000 feet of sediments. At depth the sedimentary deposits are wedge-shaped thicken from east to west, and dip gently toward the valley axis. At the surface the valley floor is characterized by low topographic relief. The present land surface across the base slopes less than 1° from the eastern to western boundaries.

The base is located seven miles northeast of the intersection of two major drainage systems, the Sacramento and American rivers. The Sacramento River flows from north to south and is located six miles west of the base. The American River flows from northeast to southwest and is located seven miles south of the base. Meandering of these drainage systems over the past 5 million years has created complex stratigraphic relationships beneath the base.

### 1.2.1 Soils

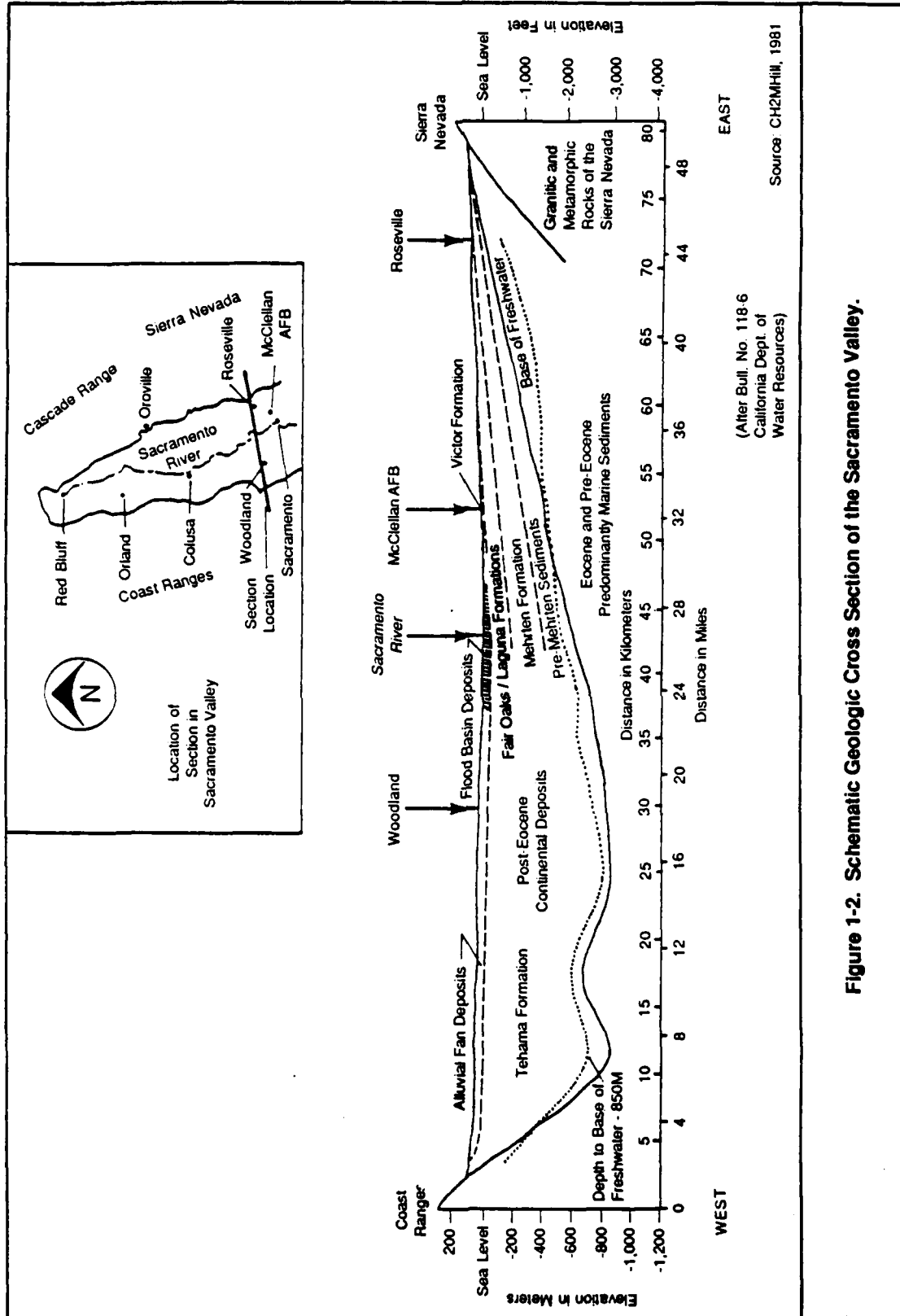
There are several types of soil in the vicinity of McClellan AFB (USDA, 1986). The surface soils (less than 5 feet deep) are composed of mixed alluvium derived from a variety of sources, mainly granitic rock. Most of the soils have been in place long enough to have developed a silica cementation ("hardpan") at a depth of 20 to 40 inches. Surface textures are dominantly

loam and sandy loam, underlain by finer-textured loam and sandy clay loam horizons over the hardpan. Soil permeabilities range from 0.6 to 2.0 inches per year, depending on local conditions. The local soils are generally classified as San Joaquin fine sandy loam, Fiddymont fine sandy loam, or San Joaquin-Xeralfic Arents complex. These soils have a low shrink-swell potential, a slight erosion potential, and a very low available water capacity of approximately 0.10 to 0.14 inches of water per inch of soil. However, in many on-base areas natural soil conditions are no longer represented due to past excavation and construction activities.

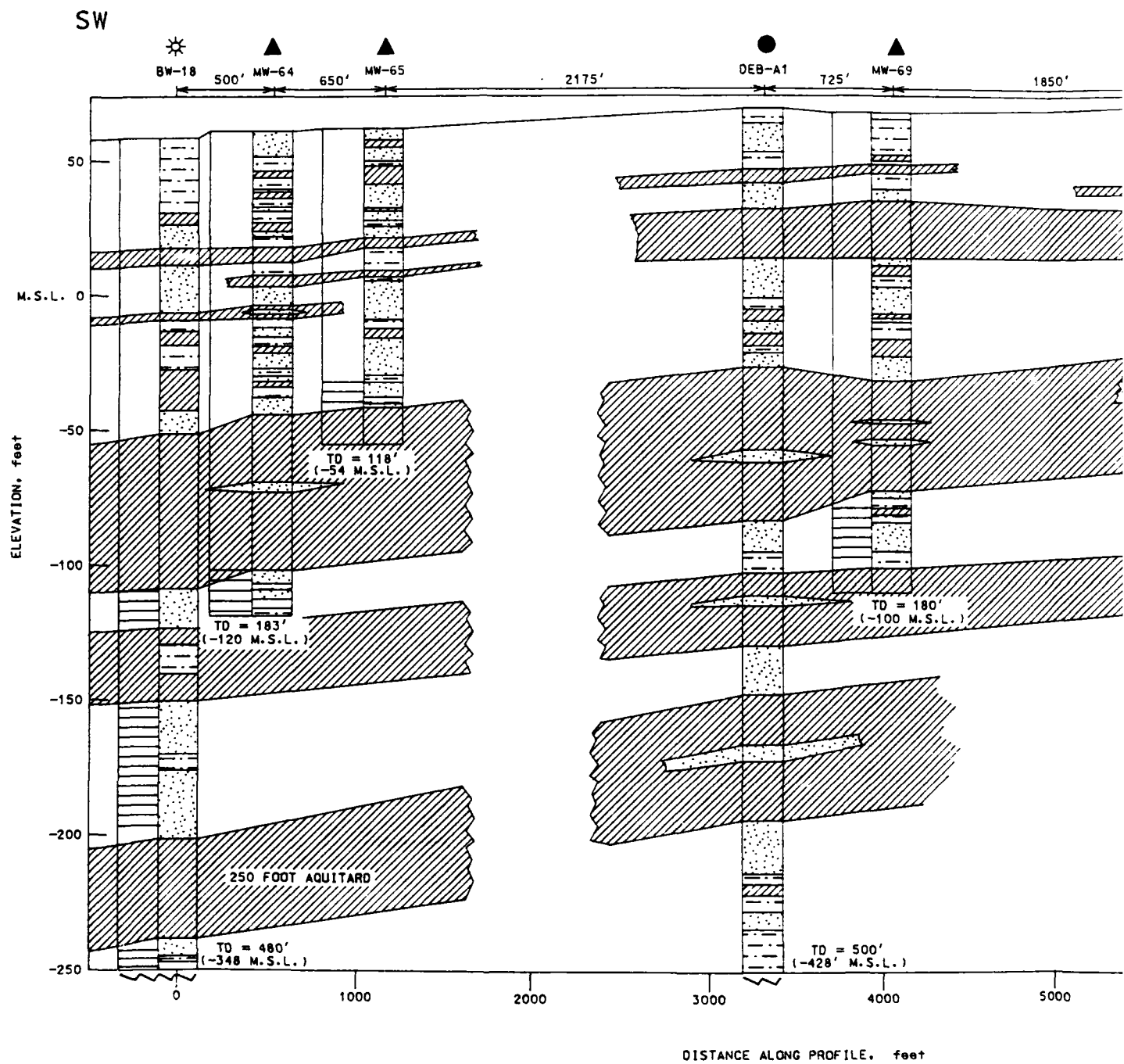
#### 1.2.2 Geologic Units

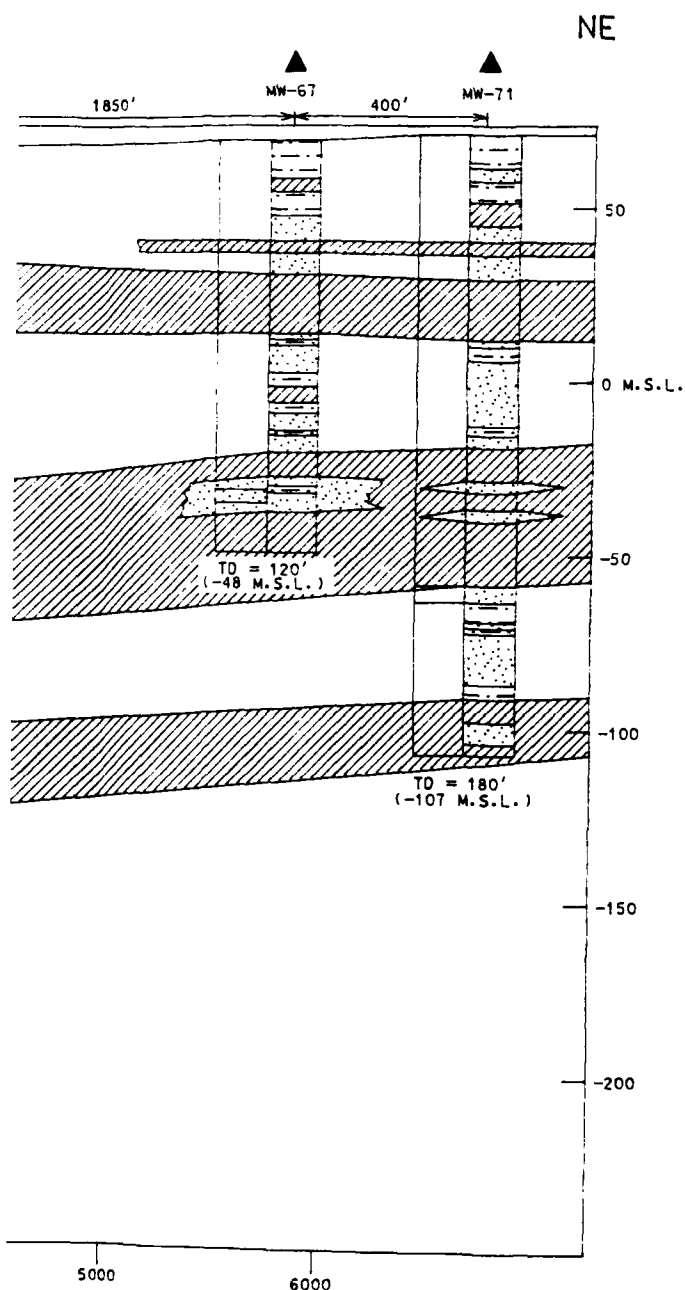
Figure 1-2 is a schematic east-west cross section of the Sacramento Valley showing the approximate location of the base with respect to major geomorphic features in the Valley. Of primary concern to this report are the Victor, Fair Oaks, Laguna, and Mehrten formations. They contain fresh water aquifers that are accessed by the base and have experienced water quality degradation, probably from on-base sources of contamination.

Two regional geologic sections have been prepared to illustrate the hydrogeology beneath the base. The locations of these sections are shown on Figure 1-1. Figure 1-3 is a southwest-northeast trending profile which runs from base water supply well 18 (BW-18) in Area B to MW-71 in Area A. Figure 1-4 is a south-north trending profile which runs from MW-64 in Area B to MW-58 in Area D. These profiles illustrate approximately 300 feet of geologic section consisting of a heterogeneous mixture of variably sorted sands, silts, and clayey silts. According to the Department of Water Resources (Bulletin 118-3, 1974), deposits dominated by clay are rare. These sediments were deposited by intricately braided streams on flood plains and low relief alluvial plains (Department of Water Resources, Bulletin 118-3, 1974). Sands grade laterally and vertically into finer grained deposits and are very difficult to correlate stratigraphically. In this kind of depositional environment aquifers are typically connected in highly irregular patterns



**Figure 1-2. Schematic Geologic Cross Section of the Sacramento Valley.**





**Figure 1-3.**  
**Subsurface Profile Regional Section:**  
**Area A to Area B**

## LEGEND

- ▲ MONITORING WELL (MW)
- EXTRACTION WELL (EW)
- ☼ BASE PRODUCTION WELL (BW)
- M.S.L. MEAN SEA LEVEL
- TD TOTAL DEPTH

- SAND
- SILT
- CLAYEY SILT
- NO DATA
- SCREEN INTERVAL

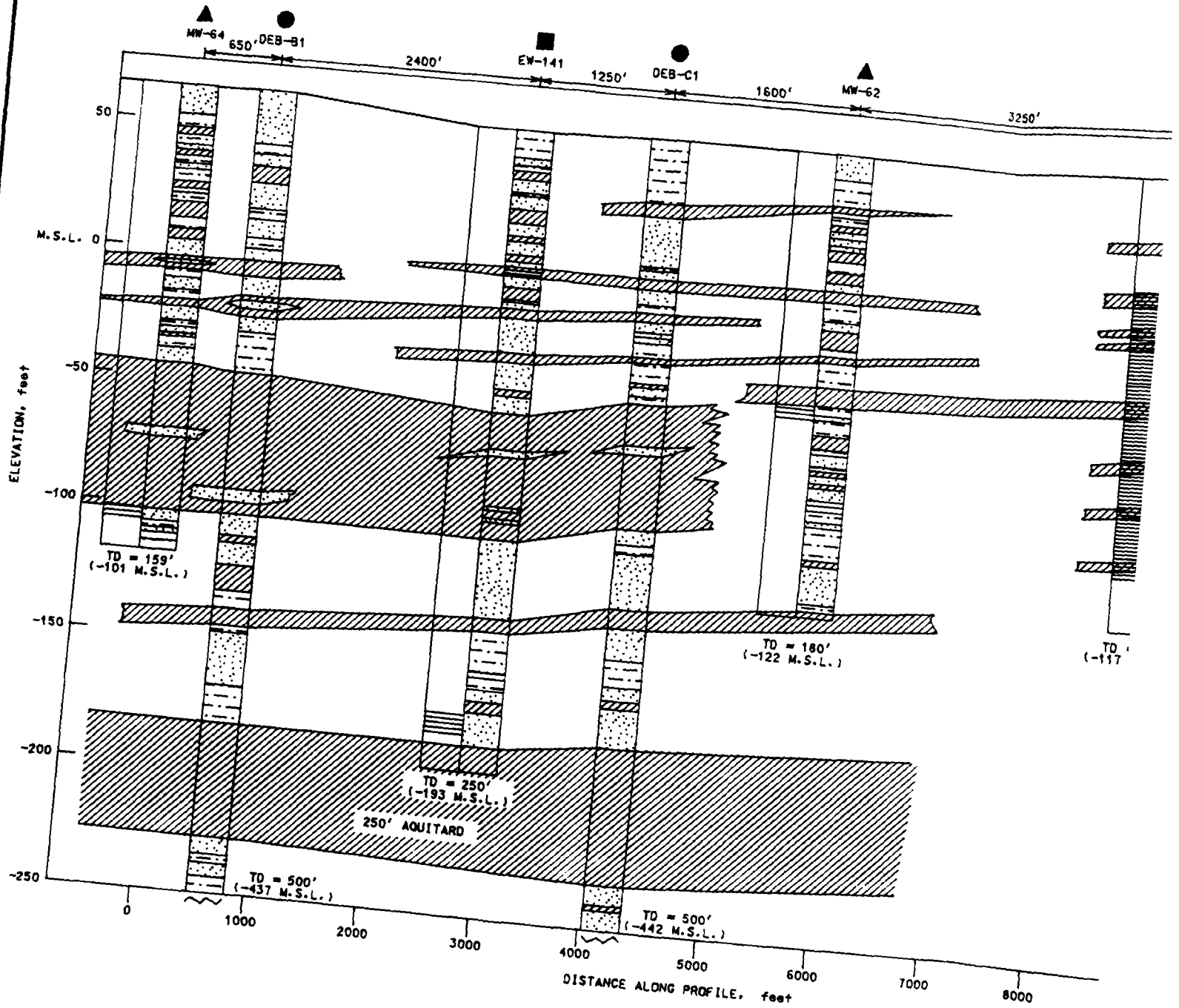
## SCALE

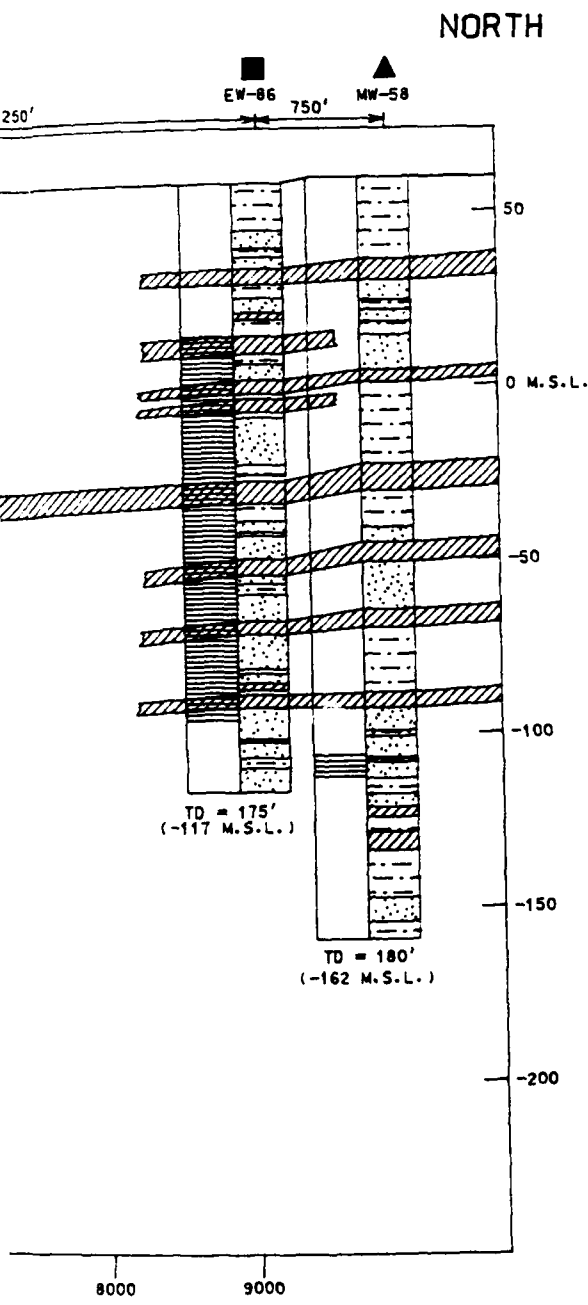
HS: 1" = 840'  
VS: 1" = 54'  
VE = 15.5

GENERATED BY: *Steve Thompson* 7-20-89  
PROJECT REVIEW: *Maria McCorkle* 7-21-89  
PEER REVIEW: *John P. Thompson* 7-21-89

**RADIAN**  
CORPORATION

SOUTH





**Figure 1-4.**  
**Subsurface Profile Regional Section:**  
**Area D to Area B**

### LEGEND

- ▲ MONITORING WELL (MW)
- EXTRACTION WELL (EW)
- ☼ BASE PRODUCTION WELL (BW)
- M.S.L. MEAN SEA LEVEL
- TD TOTAL DEPTH

- SAND
- SILT
- CLAYEY SILT
- NO DATA
- SCREEN INTERVAL

### SCALE

HS: 1" = 1250  
 VS: 1" = 54  
 VE = 23

GENERATED BY: Wm. J. McManis 7-30-89  
 PROJECT REVIEW: Marie McCull 7-21-89  
 PEER REVIEW: J. P. Thompson 7-21-89

**RADIAN**  
 CORPORATION



Clayey silts, because of their flood stage mode of deposition, form more laterally extensive units.

Figures 1-3 and 1-4 show two important features about the hydrogeology beneath McClellan AFB. From approximately -180 to -250 feet mean sea level (msl) there is a fine-grained deposit designated as a "250-foot" aquitard. It is present in Areas A, B, C and the Northeast, but no wells have been drilled deep enough in Area D to confirm its presence in the northwest part of the base. From approximately -40 to -100 feet msl there is another fine grained zone that can be correlated in Areas A, B, and C, but not in Area D. Contaminants have not been contained by this upper fine grain sequence. However, investigations that are part of the PGOURI (Radian, March 1989) will help identify how effective the 250-foot aquitard has been in preventing contaminant migration to deeper parts of the section.

### 1.3 Local Groundwater Hydrology

Near McClellan AFB, groundwater is extracted primarily from the Fair Oaks-Laguna and Mehrten formations. The water table is typically 80 to 110 feet below the ground surface, with annual fluctuations as large as 2 feet. Groundwater recharge in the eastern portion of the vicinity of McClellan AFB occurs as a result of infiltration from streams, rivers, rainfall, irrigation, runoff from the foothills of the Sierra Nevada, and groundwater flow. Groundwater discharge in the Sacramento Valley occurs predominantly through pumping.

The aquifer system beneath the base is comprised of a succession of relatively permeable sandy deposits interbedded with less permeable deposits of silts and clayey silts. The water-bearing strata above 120 feet are generally unconfined; the water-bearing strata below 120 feet are generally semi-confined. During aquifer tests, hydraulic responses have been measured in

observation wells screened at different depths than the depth from which the groundwater was extracted. Strata within the unconfined zone and semi-confined zones show varying degrees of interconnection because of the heterogeneous nature of the local sedimentary deposits and the absence of a laterally extensive, low permeability, confining layer. The lateral discontinuity and facies changes within the semi-confining layers allow contaminants to move vertically between the various waterbearing zones.

1.3.1 Definition of Groundwater System

Four groundwater monitoring zones have been defined based on the elevation of monitoring well screens and correlation of geologic logs. These zones were designated to provide control for groundwater-level measurements, to determine horizontal and vertical groundwater gradients, and to monitor the extent of groundwater contamination. Within each of these zones are coarser-grained, high-permeability layers separated by low-permeability layers. Textures of the layers range from well-sorted sands to poorly sorted sands, silts, and clayey silts.

These zones, designated by elevation and not by separate and distinct hydrogeologic units, are:

- Shallow: above -55 feet msl;
- Middle: between -55 and -100 feet msl;
- Deep "A": between -100 and -150 feet msl; and
- Deep "B": below -150 feet msl.

Four monitoring wells have been screened at depths greater than -150 feet msl. Three of the monitoring wells are located in Area C and one is located in Area B. The designation of deep "A" and deep "B" monitoring zones is based on limited interpretations of the hydrogeology and differences in hydraulic heads.

In the Preliminary Groundwater Operable Unit Remedial Investigation (PGOURI) Work Plan (Radian, October 1988), Radian has proposed a redefinition and expansion of the four monitoring zones. Until work is completed under the PGOURI and the new definitions can be evaluated with the new data, the Sampling and Analysis Program will continue to use the shallow, middle, deep "A", and deep "B" monitoring zone conventions.

The convention of the Sampling and Analysis Program is compared below to the proposed PGOURI defined zones:

Comparison of Zones

Sampling and Analysis Program	PGOURI
Shallow Zone: above -55 feet msl	A Zone -30 to -80 feet msl
Middle Zone: -55 to -100 feet msl	B Zone -81 to -130 feet msl
Deep "A" Zone: -100 to -150 feet msl	C Zone -131 to -210 feet msl
Deep "B" Zone: below -150 feet msl	D Zone -211 to -280 feet msl
	E Zone -281 to -310 feet msl

Monitoring wells that are sampled in the Sampling and Analysis Program are part of a groundwater monitoring network. The network has evolved since 1985 and presently includes 129 wells, 85 are on base and 44 off base. Monitoring wells are added or removed from the network sampling program as warranted by data collected each quarter. Decisions on which wells are included in the network are made jointly by Radian, AFOEHL, McClellan AFB Environmental Management Office, and concerned regulatory agencies.

Appendix A-1 lists the McClellan AFB Groundwater Monitoring Network wells in the 10 geographic areas. Appendix A-2 and A-3 list well-specific data for network monitoring wells and extraction wells, respectively.

All on-base monitoring wells have been assigned numbers less than 1000. All off-base monitoring wells, with four exceptions, have been assigned numbers greater than or equal to 1000. The four exceptions are MW-28D and MW-28S, located in the Southeast Area, and MW-74 and MW-76 located in the Northwest Area.

In the future, monitoring and extraction wells will be included in "Groundwater Operable Unit Areas" instead of the designated and adjacent areas currently in use. In March 1989 preliminary operable units were selected based on the geographic grouping of sites, the impact of water supply wells on groundwater flow, the area size in which successful remediation can be expected, and the historical geographic designations. When the PGOURI (Radian, March 1989) is completed and all available data is examined, the operable unit boundaries will be formalized. At that time, monitoring and extraction well numbers will not change, though the area in which they are located will be called an operable unit. These units will better reflect the influences on groundwater flow and contaminant migration.

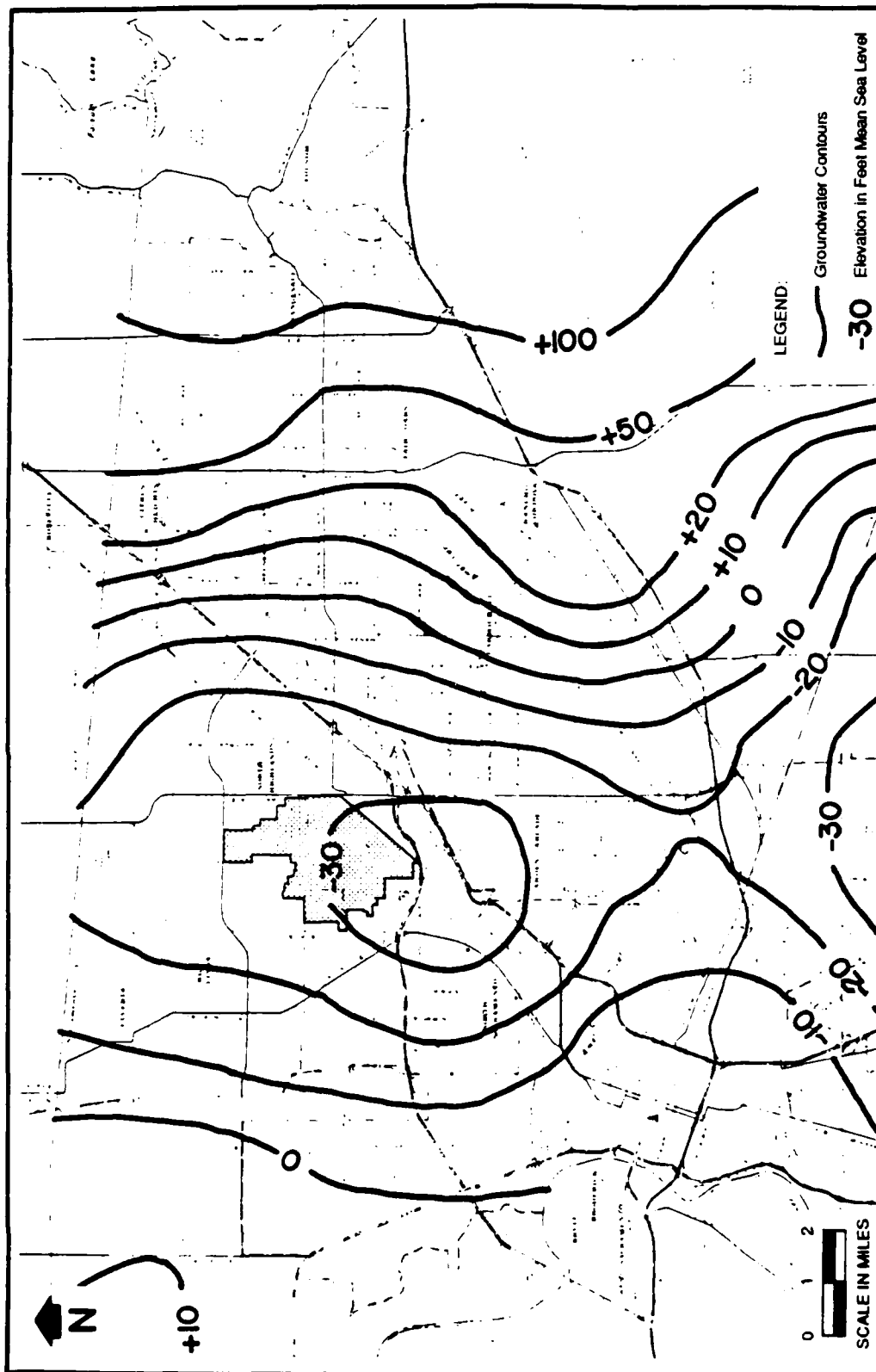
#### 1.3.2 General Flow Patterns Across the Base

During the early 1900s, groundwater in the vicinity of McClellan AFB flowed from areas of recharge in the northeast to areas of discharge in the southwest in response to the natural hydraulic gradient. Since the turn of the century, the local extraction of groundwater for irrigation, industrial, municipal, and domestic use has dramatically altered groundwater levels and gradients. By 1960, groundwater pumping had increased such that the rate of withdrawal began to exceed the rate of recharge, and groundwater levels began to decline. Under these conditions, local horizontal gradients underwent marked changes in direction and magnitude, and local groundwater depressions

began to develop in areas of maximum withdrawal. At this time, a major regional pumping depression is approximately centered just south of the base, as shown in Figure 1-5. This depression has resulted in a change in the regional groundwater flow direction for this area such that flow is now generally to the south.

The location of monitoring wells that have been installed on and in the vicinity of the base are shown on Plate 1. Currently, groundwater levels in 134 monitoring and extraction wells are measured regularly as part of the Groundwater Sampling and Analysis Program. Each monitoring well has been grouped into one of the four monitoring zones (shallow, middle, deep "A", and deep "B") described previously. Groundwater level measurements from the monitoring wells are used to produce potentiometric surface maps for three monitoring zones. A potentiometric map is not generated for the deep "B" zone because there are only four data points. The potentiometric maps are used to determine groundwater flow directions, including local deviations from the regional flow pattern.

The regional groundwater flow direction beneath the base is south-southwest. Over the last nine quarters (fourth quarter 1986 to fourth quarter 1988) groundwater flow directions appear to show deviations from the local flow in two locations in and around the base. One deviation is near the Area D extraction system whose influence is evident in the northwestern portion of the base. Potentiometric surface maps indicate that the extraction system is inducing groundwater to flow toward the extraction wells. The other deviation is in the southern portion of the base where groundwater is converging towards BW-18. There are other active water supply wells in the eastern portion of the base (BW-10, BW-20, and BW-29), and to the south and southwest of the base whose influence cannot currently be defined. This is due to the limited number of monitoring wells near them. New wells to be drilled under the PGOURI (Radian, March 1989) will help to better evaluate groundwater flow directions in those areas.



**Figure 1-5. Groundwater Depression Beneath North Sacramento County  
Created by Supply Well Pumping, Spring 1988.**

SOURCE: Water Resources Division, Department of Public Works, County of Sacramento

0789-067-7

In order to show these changes with time, a suite of potentiometric maps for each of the three monitoring zones have been developed using water level data from October 1986, October 1987, January 1988, and October 1988. These are shown on Plates 2, 3, and 4. The shallow monitoring zone suite (Plate 2) shows that the general groundwater flow is towards the south and has not changed significantly since October 1986. The effect of the Area D extraction system is evident on the October 1987, January 1988, and October 1988 maps. Comparison of water table elevations from year to year indicate that the groundwater elevation has been declining about two feet per year. The middle monitoring zone suite (Plate 3) also shows a general groundwater flow direction from north to south across the base. The effects of the Area D extraction system and pumping of on-base and off-base water supply wells in the south are shown on the maps beginning in October 1987. Based on the potentiometric maps of the middle monitoring zone, pressure heads in the middle zone have been declining between 2 and 5 feet per year. Maps for the deep monitoring zone suite (Plate 4) all show similar flow patterns over the past two years. The Area D extraction system appears to be affecting flow in the deep monitoring zone, even though the wells are screened in the shallow and middle monitoring zones. Pressure head values appear to be declining between three and five feet a year.

## 2.0 STATISTICAL ASSESSMENT OF THE ANALYTICAL DATA

Two major objectives were accomplished through the statistical analysis of the analytical data (the concentrations of analytes detected in groundwater samples) from McClellan Air Force Base (AFB). The first objective was to assess the quality of the analytical data in terms of the uncertainty in the reported concentrations of analytes. The quality of the data was determined to be sufficient for use in determining the extent of contamination in Section 3.0, Contaminant Distribution and Migration. The second objective was to characterize the analytical data to determine the statistical methods that are appropriate for trend analysis of this data. This study focuses on describing the distribution of the data and determining the presence or absence of seasonality. Then, an overview of the methods chosen to identify the presence and magnitude of trends in the data is presented. The following paragraphs provide brief summaries of the major results and references to more detailed discussions of the methods and results.

### Uncertainty Estimate Results

In Section 2.1, Data Quality Assessment, precision estimates are reported for 8 of the 10 key analytes. Because any measurement has some degree of error in the reported results, the processes of obtaining and analyzing groundwater samples produce results with some degree of deviation from the true analyte concentrations of the groundwater sample. The uncertainty introduced by both sampling procedures and laboratory procedures was determined from field duplicate samples. The precision was examined for the concentrations of specific analytes including trichloroethene (TCE), 1,1-dichloroethene (1,1,-DCE), 1,1-dichloroethane (1,1-DCA), total 1,1-dichloroethene (total 1,2-DCE), tetrachloroethene (PCE), chloroform, 1,2-dichloroethane (1,2-DCA) and 1,1,1-trichloroethane (1,1,1-TCA). The uncertainty estimates, ranging from 15 to 29 percent, are presented in Figure 2-1. Two of the key analytes, vinyl chloride and carbon tetrachloride, had too few quantitative pairs of results to determine the uncertainty.



## TOTAL UNCERTAINTY BY ANALYTE

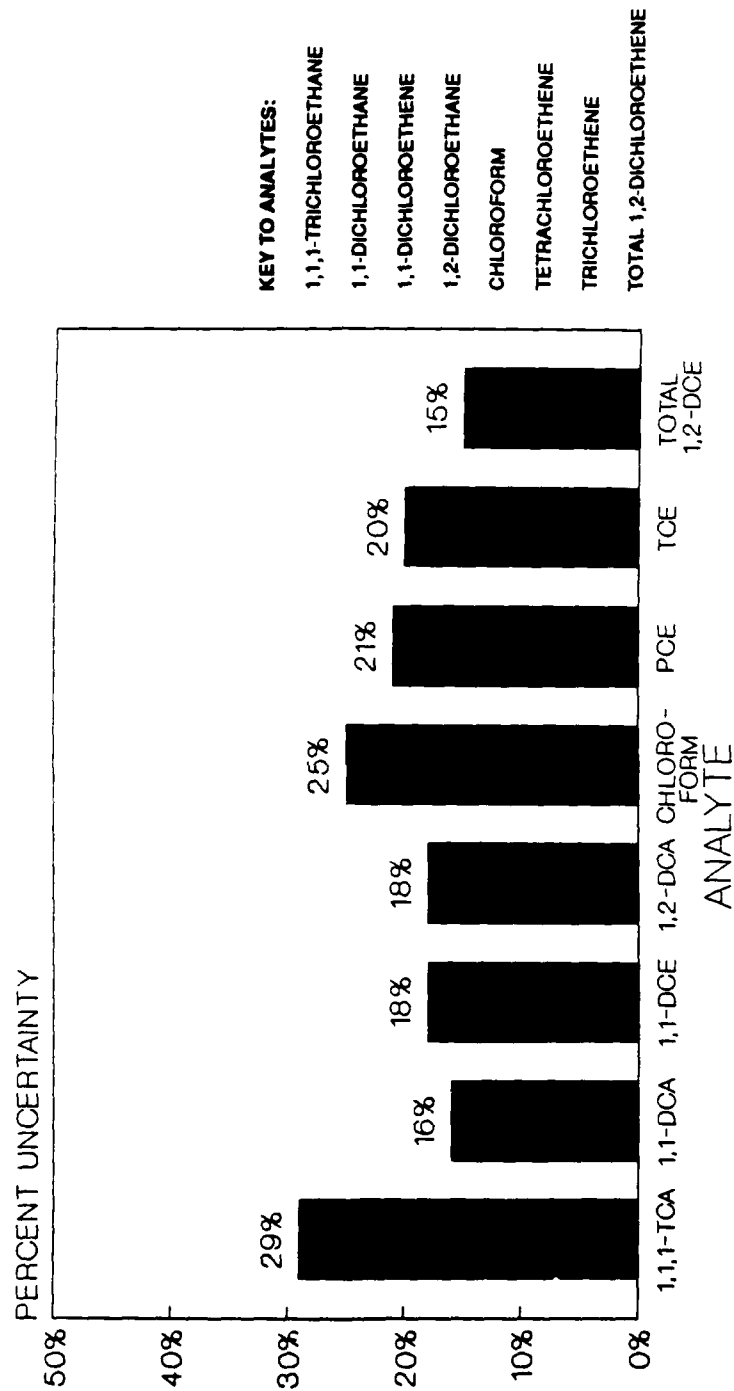


Figure 2-1. Uncertainty Estimates (95 Percent) for Selected Analytes.

In application, these uncertainty estimates help distinguish between real changes and random fluctuations in concentrations. The uncertainty estimate, expressed as a percent of the reported value, can be used to compute 95 percent confidence intervals for reported results for any of these analytes. For example, trichloroethene (TCE) has an uncertainty estimate of  $\pm 20$  percent; therefore, a reported concentration of 15 ug/L would have a 95 percent confidence interval for the actual concentration of TCE in the groundwater sample ranging from 12 to 18 ug/L. This means that results over a period of time for TCE in a particular monitoring well would have to differ by more than  $\pm 20$  percent to establish that a trend is present or that a change in the water quality has occurred. The confidence intervals are included in the time series plots in Section 3.0, Contaminant Distribution and Migration.

Other statistical analyses were performed to show that these estimates were applicable for the entire range of concentrations, as well as for all sampling periods. A statistical analysis was also performed to separate the portion of the uncertainty contributed by the sampling process from the portion contributed by the analytical process. In addition to precision, the accuracy of the analytical data was assessed using the results of matrix spike analyses.

From these analyses, Radian concludes that the sampling and analysis protocols have been followed consistently. As a consequence, the analytical data is of high quality. Furthermore, the amount of uncertainty in the results has been controlled, and in fact, is well below the established criteria of 50 percent in the Quality Assurance Project Plan (QAPP) (Radian Draft, October 1988). A complete description of the methods and results for these statistical analyses is contained in Section 2.1.

#### Trend Analysis Discussion

One of the primary uses of the analytical data for this report was the identification of either increasing or decreasing trends in the analyte concentrations for the monitoring wells. The presence or absence of trends is information that can be used to interpret the migration of contaminants.

There are several methods that can be used for trend analysis and the choice of methods depends on factors such as the distribution of the data and the existence of seasonal cycles in the data.

In Section 2.2, Description of Data and Statistical Techniques, the data were described as non-normal (does not fit a bell-shaped curve) and were characterized by missing values (sampling events when the well was not sampled) and censored values (values less than the detection limit) which is common for groundwater data. In addition, it was shown that there is insufficient evidence at this time that the concentrations change seasonally.

Based on these findings, the Mann-Kendal test for trend was chosen to determine which monitoring wells show trend over time. The Mann-Kendall test is distribution free and allows missing and censored data points. Then, the magnitude of the trend was estimated by two methods. The magnitude is the change in concentrations per sampling period and indicates whether the trend is steep or only slight. The first method was Sen's nonparametric estimator of slope which produces an estimate using the median change per sampling period. The second method, developed by Gilbert, provides a 90 percent confidence interval for the change per sampling period. Gilbert's method was applicable for wells with 10 or more data points. This interval provides a range of values for the actual rate of change which is preferable to Sen's estimate because the concentrations do not change at a constant rate. It should be noted that even concentrations of the wells that do not show trends have fluctuations in concentrations, but the fluctuations are random. The details of the application of these methods can be found in Section 2.2

As a result of the trend analysis, 43 analyte concentration trends were identified in 23 wells. Fifteen trends were increasing while 28 were decreasing. Seven wells in Area D showed decreasing trends for several analytes. In general, trends detected in other areas of the base appear to be isolated occurrences. The results and interpretations are included in the discussions of the different areas in Section 3.0, Contaminant Distribution and Migration.

The paragraphs above have provided an overview of the statistical approach and major results. The subsections below describe, in detail for those interested, the assumptions, methods and results of the statistical assessment of the analytical data. The results of the assessment are incorporated into the discussions of Section 3.0, Contaminant Distribution and Migration.

## 2.1 Data Quality Assessment

The quality of data used as a basis for interpretations must be established in order for the interpretations to be valid. In order to obtain high quality data, Radian has developed well-defined protocols for sampling and validating data. All analytical data cited in this report have been evaluated according to guidelines established by either the QAPP or previously established guidelines for the sampling period in which they were collected. The process of data quality assessment consists of the following steps: 1) The data are reviewed for accuracy in transcription and reporting; 2) The types and numbers of duplicate and blank QA/QC samples (i.e. field and matrix spike duplicates, field blanks, trip blanks, ambient blanks, matrix spikes, and surrogate spikes) are checked against the required frequency; 3) Individual QA/QC sample results are compared to the quality assurance objectives set forth in the QAPP; 4) Any data not meeting the required objectives are qualified in the appropriate manner.

Even though the procedures outlined above are strictly followed, there are several types of uncertainty inherent in the sampling and analytical processes.

Any sampling and measurement effort will have an unavoidable component of error. An error in reported values can occur as a result of bias and imprecision. Furthermore, for each of these types of error, there can be both random and systematic components. Random error is defined as an unpredictable error in sign and magnitude, and is due to inherent variability

in the process. Systematic error contributes constant error or bias to results that may agree precisely among themselves. Part of the function of QA/QC is to reduce the impact of both systematic and random errors to the final data. While random error cannot be totally eliminated, it can be minimized by adherence to standard sampling and analysis protocols. Systematic error is detected from the QA/QC data, and corrective actions can be taken to remove it or to mitigate its effects.

One of the primary objectives of data quality assessment is to determine the precision of the data. The precision is measured through the use of duplicate samples for assessment of total variability and the use of duplicate analyses for assessment of laboratory variability. The tool used is the relative percent difference (RPD) between the duplicate pair. The RPD is calculated by dividing the difference between the two results by their average.

Several factors may influence the precision of a groundwater sample. Following are several possible factors for influencing the precision in the sampling portion of the process:

- Improper well construction or maintenance;
- Failure to follow correct sampling protocol;
- Field equipment contamination;
- Matrix interferences;
- Sampling mechanism bias;
- Labeling errors; and
- Incorrect storage.

Every step in the sampling process may contribute some uncertainty that can be manifested in the RPD. In addition, laboratory processes may contribute to uncertainty in the reported results. Some possible factors arising from the sample analysis process are:

- Loss of analytes due to improper storage and aging;

- Cross-examination;
- Matrix interferences;
- Aged standards; and
- Reporting errors--transcriptions, calculating, etc.

It is often very difficult, if not impossible, to track down a specific assignable cause for a high RPD. Indeed, isolated high RPDs may indicate random error, not a systematic flaw. When they appear repeatedly, then an assignable, systematic cause may be found. Discussions relating to this type of investigation can be found in each quarterly Data Summary.

While many sampling errors can cause an across the board systematic effect on all analytes, some errors can affect some analytes more than others. For example, if a volatile organic aromatic (VOA) sample were incorrectly stored, it is possible that the more volatile constituents could be lost while the less volatile ones remain. Some compounds are more photochemically labile than others and are candidates for photodecomposition should the sample be exposed to sunlight. The sorption properties of various compounds differ greatly, as do the diffusion properties. Therefore, it is possible that some compounds might be affected by sampling uncertainty more than others.

Therefore, the purpose of this section is to quantify the uncertainty in the reported concentrations of analytes from sampling and analytical causes. In addition, the uncertainty is to be expressed as a 95 percent confidence interval for the actual concentration of the analyte. These uncertainty estimates provide an indication of the overall quality of the data. The samples that represent both types of uncertainty are field duplicate samples and are analyzed under the same conditions using the same laboratory techniques.

All field duplicate pair results from the 11 sampling periods from 1985 through 1988 were considered for this statistical analysis. Pairs in which one or both results were reported as "not detected" were deleted from

the data set because a quantity below the detection limit does not provide information which can be used to assess precision. This is consistent with the procedures used to analyze precision for the data summaries. Eight of the 10 key analytes were included in this study. Vinyl chloride and carbon tetrachloride did not have enough duplicate pairs to evaluate analytical precision. According to the U.S. Environmental Protection Agency (U.S. EPA), 1983, 20 pairs are recommended for the analysis of precision. Uncertainty was calculated for each analyte in accordance with the guidelines established by the U.S. EPA (U.S. EPA, 1983). The uncertainty estimates and the number of pairs for each analyte are given in Table 2-1.

These uncertainty estimates provide a confidence interval that can be applied to any reported concentration of these eight analytes. Thus, 95 percent of measurements for TCE whose reported concentration is 15 ug/L would have an actual concentration between the limits of 12 and 18 ug/L or  $\pm 20$  percent. In application, this means that in comparing measurements from different sampling events, the difference between two results must be greater than the percent uncertainty for that analyte in order to establish that a change in the water quality has occurred. Once such a change is verified, the cause of the change can be investigated.

Since the uncertainty in concentration values is expressed as a percent, as the measured concentration increases, the absolute confidence interval widens; thus, a reported concentration of 125 ug/L would have the confidence limits of from 100 to 150 ug/L for TCE, which is still  $\pm 20$  percent of the reported concentration. The lowest uncertainty estimate was for total-1,2-DCE ( $\pm 15$  percent) and the greatest was for 1,1,1-TCA ( $\pm 29$  percent). A description of the process used to obtain and validate these estimates is given below.

#### Description of Methodology

Before the estimates were calculated, the sets of pairs were examined to determine the overall amount of agreement between the elements of the

TABLE 2-1. UNCERTAINTY ESTIMATES AND CORRELATION COEFFICIENTS  
FOR SELECTED ANALYTES BASED ON FIELD DUPLICATE RESULTS

Analyte	Number of Pairs	Mean RPD	Standard Deviation	Uncertainty Estimate
-----Units are Percent-----				
Trichloroethene	82	15.3	23.4	20
1,1-Dichloroethene	38	12.9	17.5	18
1,1-Dichloroethane	38	11.7	14.3	16
Total 1,2-Dichloroethene	58	12.1	12.6	15
Tetrachloroethene <sup>1</sup>	16	12.2	10.5	21
Chloroform	28	17.9	18.7	25
1,2-Dichloroethane	29	12.2	14.2	18
1,1,1-Trichloroethane <sup>1</sup>	18	22.0	18.1	29

<sup>1</sup> Uncertainty estimate is based on the median for this analyte due to the small sample size.



pairs to establish the nature of the disagreements. A visual presentation of the pairs is given by scatter plots as suggested by Fritts and Hanson (1985). For each analyte, the first field duplicate result was plotted against the second field duplicate result in each pair. These plots of the pairs show the amount of agreement between the individual results, and immediately reveal which pairs are outliers (Figures 2-2 and 2-3). Ideally, the pairs should be concentrated along the  $X = Y$ . There should be no systematic pattern to the outliers. Therefore, these plots indicate that there is good overall agreement between the pairs, with few outliers, and that the occurrences of disagreements are random.

The overall agreement between the pairs can be further demonstrated by computing the correlation coefficients between the two sets of results, which are presented in Table 2-2. Five of the eight analytes had greater than 98 percent correlation between the pairs of results; the lowest correlation coefficient (92.5 percent) was calculated for TCE.

Once the data sets were examined for overall agreement, the estimates were calculated. The method used to obtain the estimates is centered around the relative percent difference (RPD) of the pair of results. For paired data, the RPD is the appropriate measure of precision between the two measurements. The formula for calculating the RPD for an individual pair is:

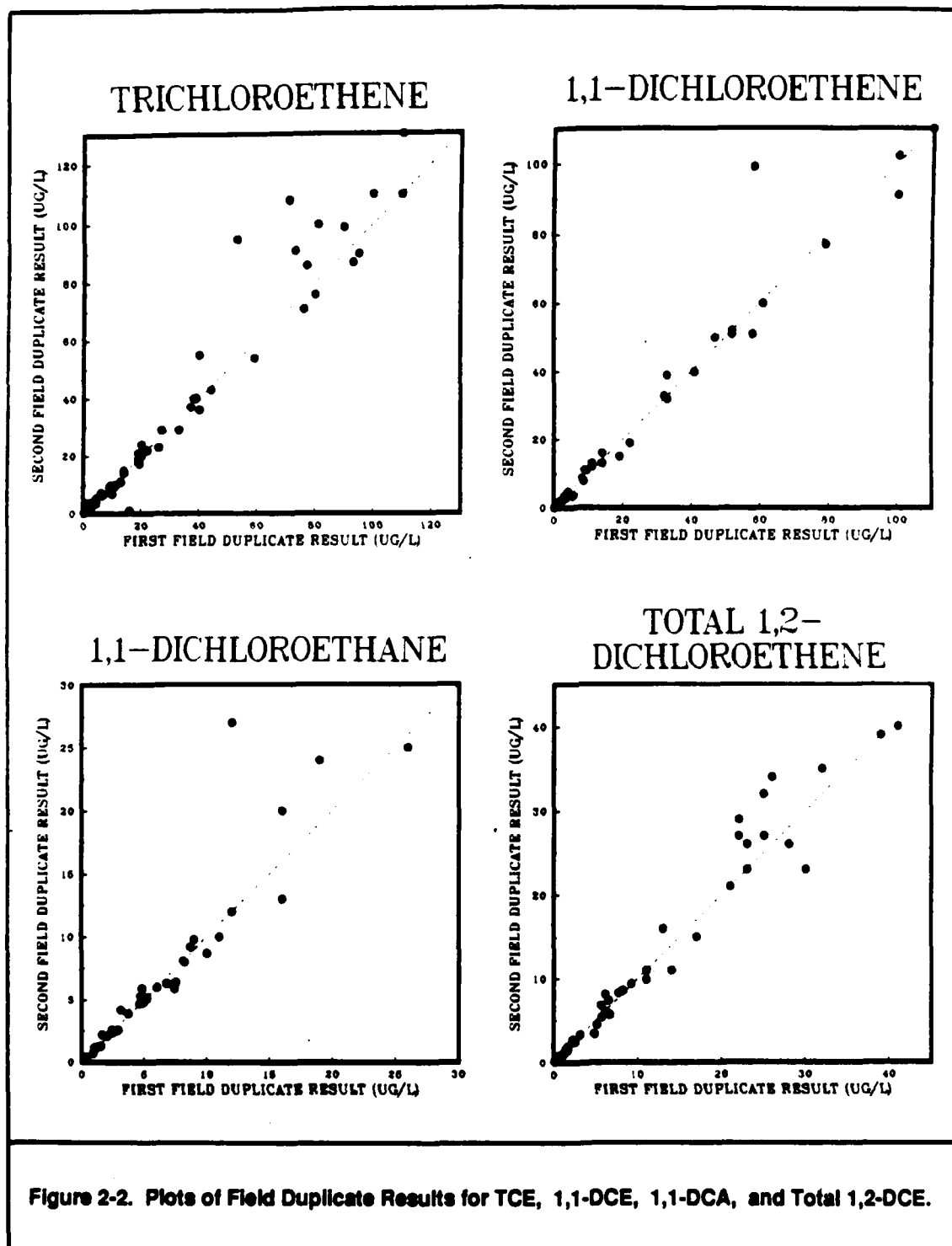
$$\text{RPD}_i = \frac{(X_i - Y_i)}{(X_i + Y_i) / 2} \times 100$$

$X_i$  is the larger of the two results in the  $i$ th pair.

$Y_i$  is the smaller of the two results in the  $i$ th pair.

The RPD was calculated for each pair in each data set. Then the upper probability limit for a 95 percent confidence interval for the mean RPD was found for each analyte using:

$$\text{Upper Limit} = \text{MEAN (RPD)} + 1.96 \times [S/\text{SQRT}(N)]$$



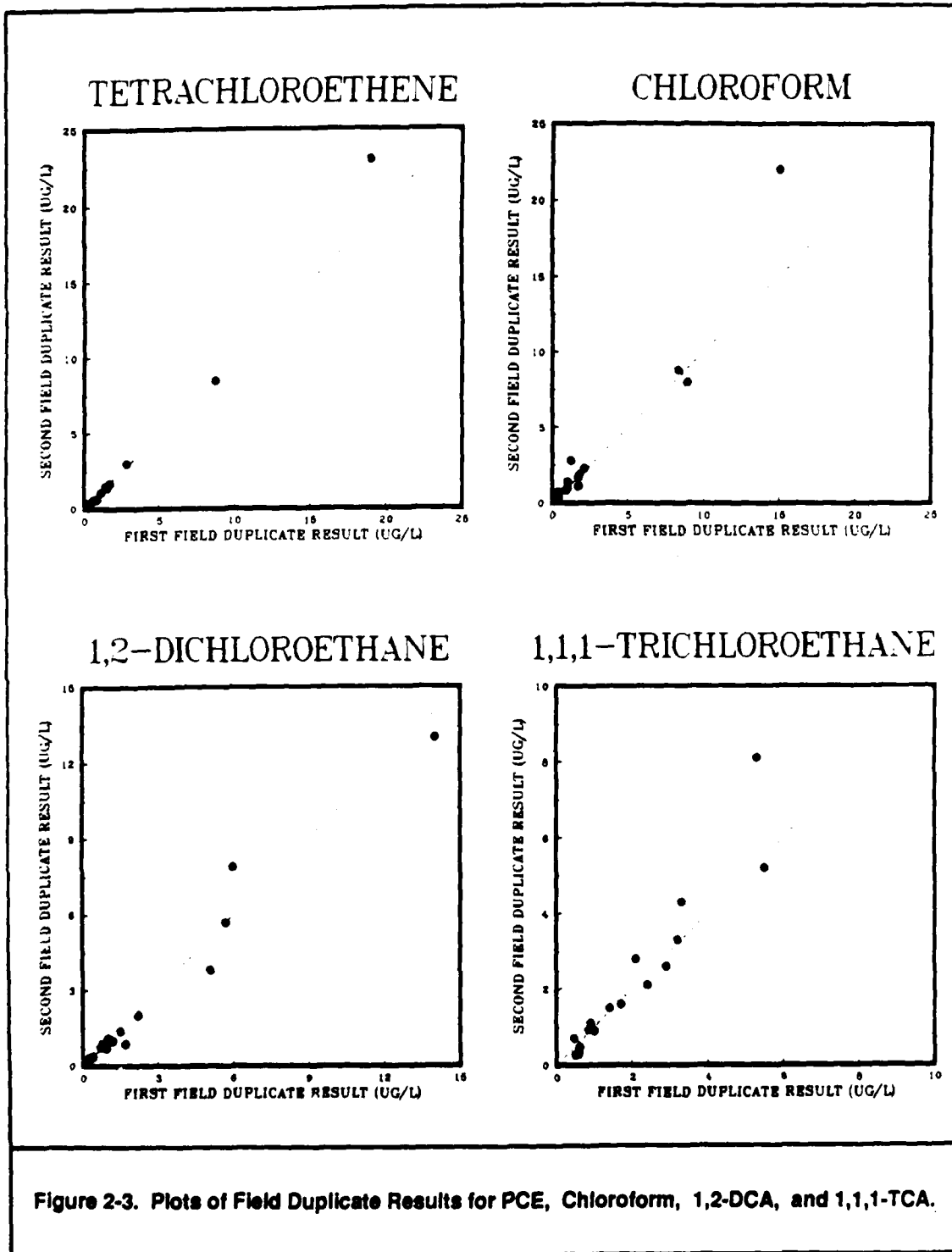


TABLE 2-2. CORRELATION COEFFICIENTS FOR SELECTED ANALYTES  
DETERMINED FROM FIELD DUPLICATE RESULTS

Analyte	Number of Pairs	Correlation <sup>1</sup>
		Coefficient
		Percent
Trichloroethene	82	92.5
1,1-Dichloroethene	38	94.4
1,1-Dichloroethane	38	98.8
Total 1,2-Dichloroethene	58	99.3
Tetrachloroethene	16	95.0
Chloroform	28	99.0
1,2-Dichloroethane	29	99.6
1,1,1-Trichloroethane	18	98.6

<sup>1</sup> The correlation coefficient indicates the amount of agreement between the results for the pairs of field duplicates.

where  $S$  is the standard deviation of the set of RPD's and  $\text{SQRT}(n)$  is the square root of the number of pairs in the data set and 1.96 is the 97.5 percentile of the Standard Normal Distribution. This upper limit is the estimate in percent of the uncertainty associated with each analyte.

This approach, although based on the normal distribution, is valid in this case because an inference is being made about the mean of the RPDs. When the number of duplicate pairs is large, the mean of the RPDs will approach a normal distribution by the Central Limit Theorem, regardless of the distribution of the RPDs. Michell, et al. (1985), suggests that a data set of greater than 20 is adequate to determine overall precision. All analytes examined had greater than 20 pairs of duplicate results, with the exception of 1,1,1-TCA, which had 18 pairs and PCE, which had 16 pairs. Since these two analytes are commonly detected at McClellan AFB, the uncertainty in the concentrations of these analytes was estimated using a conservative alternative approach that does not require a normal distribution for the mean of the RPDs.

A nonparametric approach based on the median of the RPD's was employed to obtain these two uncertainty estimates. For random variables with distributions skewed to the right, as is the RPD, the median provides a better estimate of central tendency than the mean. Figure 2-4 shows a frequency plot for the RPDs for 1,1,1-TCA including the mean and median. The upper limit for a 95 percent confidence interval for the 50 percent quantile or median was estimated using the order statistics calculated by the following formula:

$$\text{Upper limit} = \frac{(N + 1)}{2} + \frac{1.96 \times \text{SQRT}(N)}{2}$$

where  $N$  is the sample size and  $\text{SQRT}(N)$  is the square root of  $N$  (Snedecor and Cochran, 1980). The uncertainty estimate for 1,1,1-TCA is the fourteenth order statistic, and for PCE the estimate is the thirteenth order statistic.

These estimates result in percent uncertainties of 29 and 21 percent for 1,1,1-TCA and PCE, respectively.

#### Validation of Uncertainty Estimates

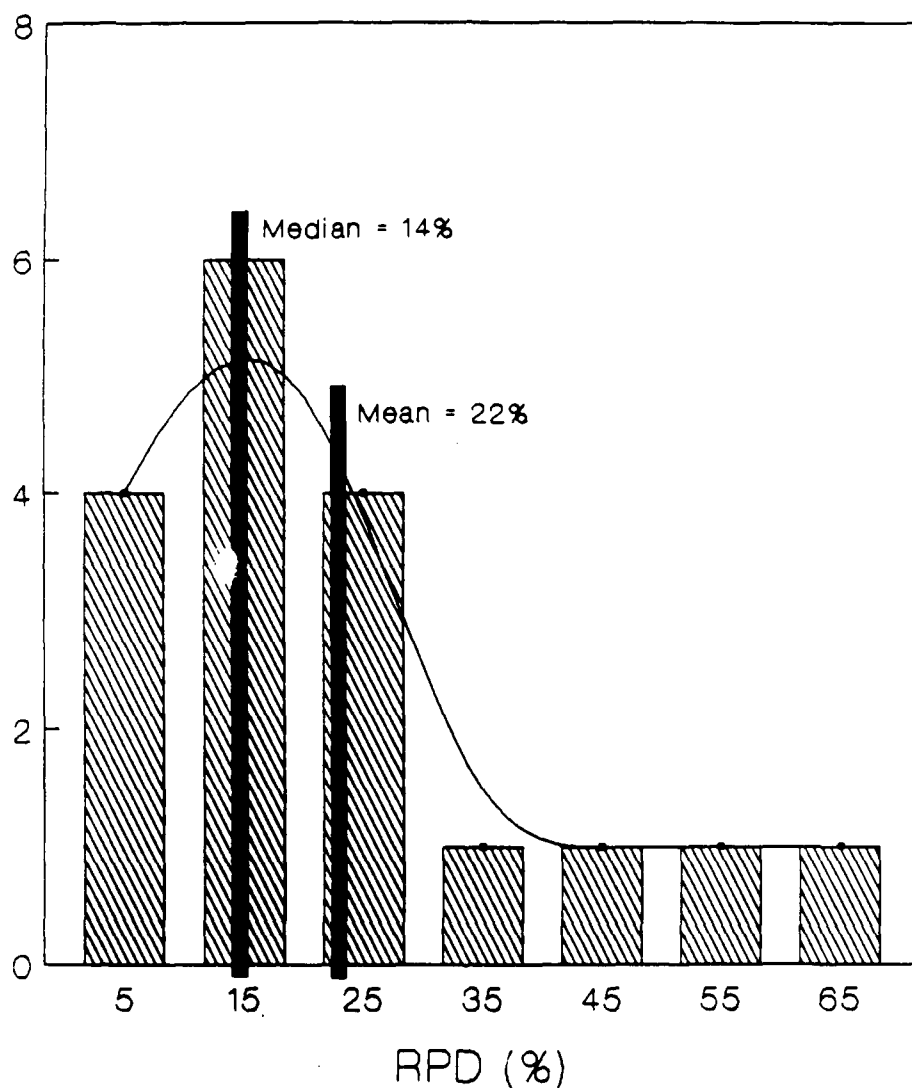
The total uncertainty estimate for each analyte was also evaluated to determine if the average RPD remains constant over the entire range of concentrations or if it is a function of the concentration. Plots of the RPD versus concentration were produced for each analyte to determine if there was any relationship between the concentration and the RPDs (Figure 2-5, 2-6, and 2-7). There were no obvious patterns to the plots; the RPDs appear to be scattered randomly throughout the entire concentration range. Therefore, there appears to be no functional relationship between the concentration and the RPD. However, it should be mentioned that the concentrations near the detection limit would be expected to have more uncertainty. This increase is not evident for this set of data because, as mentioned earlier, pairs with one "ND" were excluded from the data sets. Including these pairs would increase the average RPD near the detection limit.

An objective statistical test was constructed to test the hypothesis that there is no difference in the distribution of the RPDs for different levels of concentrations. Four concentrations ranges were arbitrarily chosen based on examination of the plots for natural groupings and were determined to be:

- Level 1 - ND TO 0.2 ug/L
- Level 2 - greater than 2.0 to 10.0 ug/L
- Level 3 - greater than 10.0 to 110 ug/L
- Level 4 - greater than 110 ug/L

The Kruskal-Wallis method (Gilbert, 1987) was selected because it is a non-parametric test for analysis of variance. None of the calculated test statistics was large enough to indicate that, at the 95 percent confidence level,

# **1,1,1-TRICHLOROETHANE FREQUENCY DISTRIBUTION FOR RELATIVE PERCENT DIFFERENCE**



**Figure 2-4. RPD Frequency Plot for 1,1,1-TCA.**

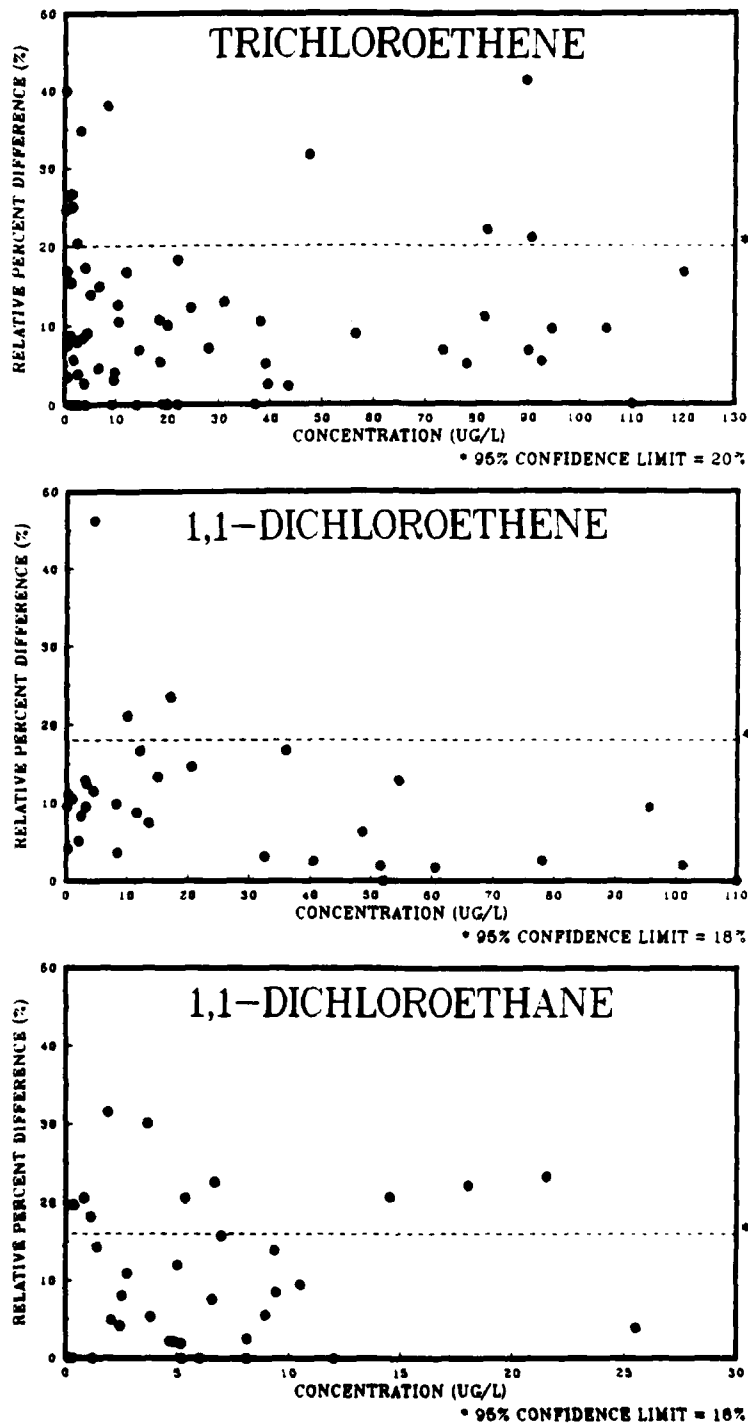


Figure 2-5. RPD vs. Concentration Plots for TCE, 1,1-DCE, and 1,1-DCA.



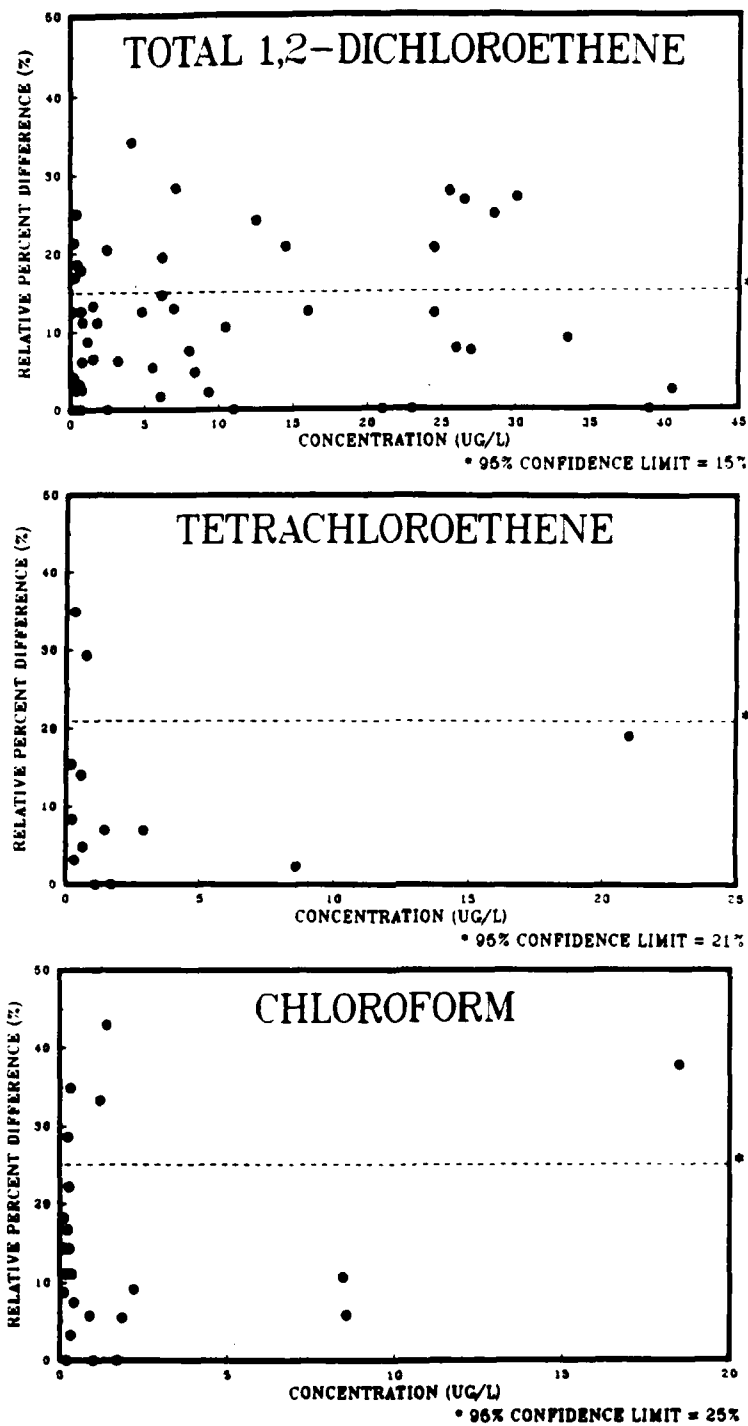


Figure 2-6. RPD vs. Concentration Plots for Total 1,2-DCE, PCE, and Chloroform.

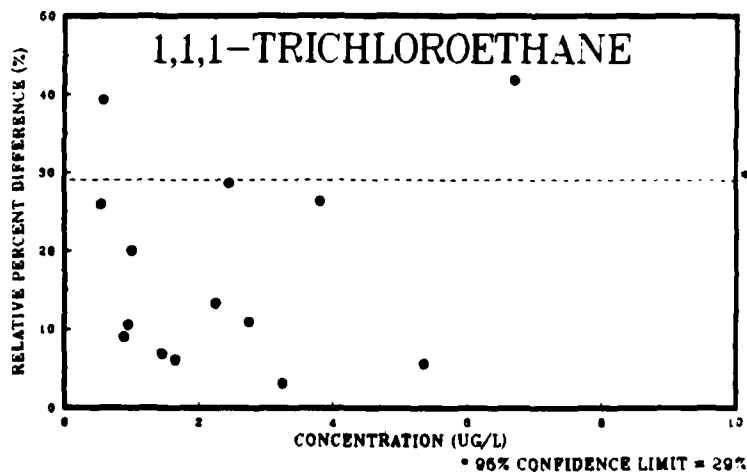
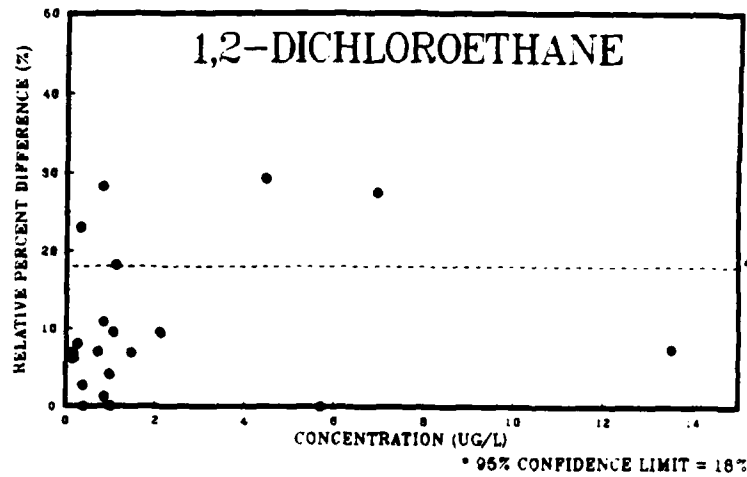


Figure 2-7. RPD vs. Concentration Plots for 1,2-DCE and 1,1,1-TCA.

the distributions are different for any of the levels for any analyte. Therefore, the conclusion is that the average percent uncertainty remains constant over the entire range of concentrations for all analytes.

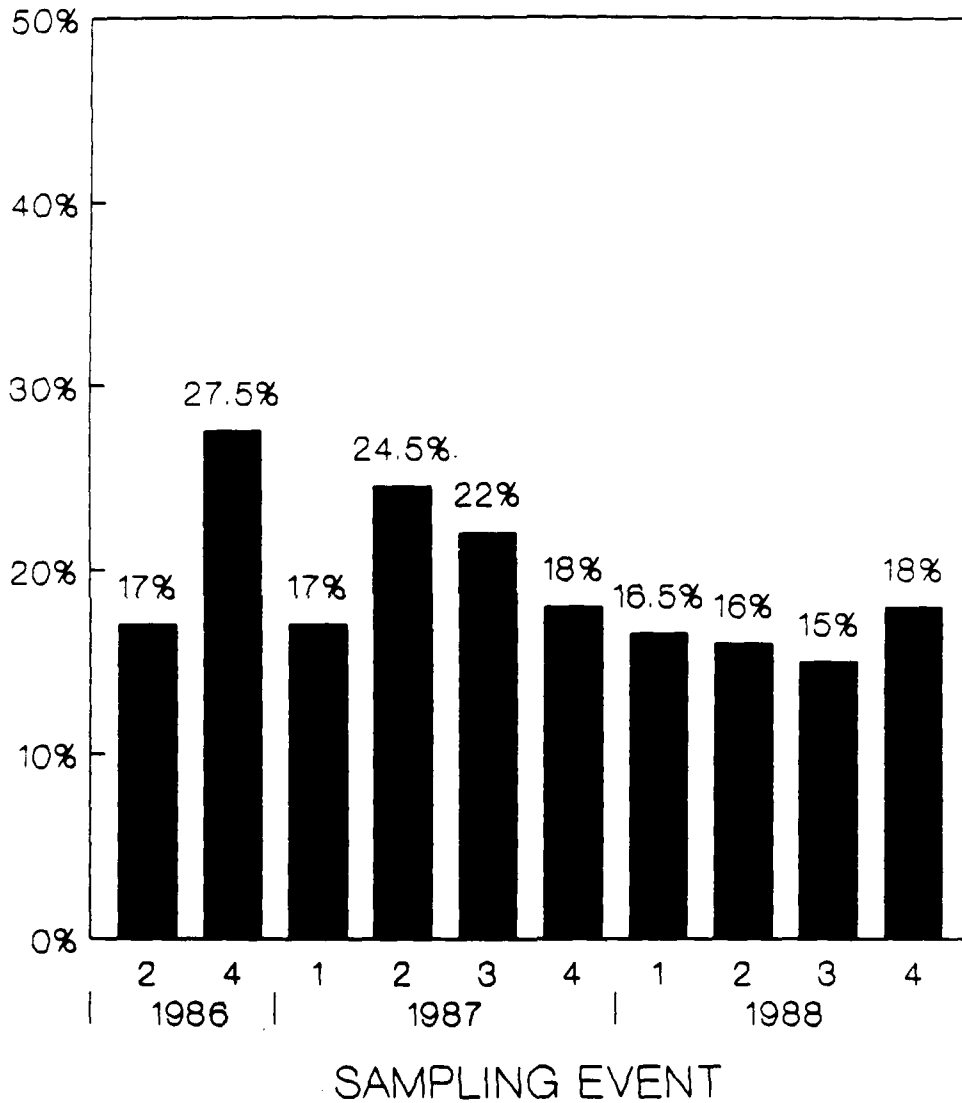
Besides the contribution to the RPD from the range of concentrations, another possible source of variability in the RPD is from temporal factors due to the differences in time over which the 11 sampling events took place. The overall uncertainty for all analytes was calculated for each of 10 sampling periods to examine possible differences between sampling periods. The round 1 sampling event in 1985 was not included in this analysis because there was only one quantifiable pair from that period. As shown in Figure 2-8, the amount of uncertainty does not vary greatly between sampling periods, and has been consistently less than 20 percent since the last sampling period of 1987. To support this observation, the distribution of the RPD's by sampling period was also shown to be identical using the Kruskal-Wallis test. This indicates consistent sampling and analysis procedures over time.

In conclusion, the total uncertainty from random causes that includes sampling and analytical uncertainty, has been quantified based on field duplicate results. The percent uncertainty estimates for selected analytes range from 15 percent to 29 percent. Based on these estimates, a 95 percent confidence limit for an analytical result for any of the eight analytes included in Table 2-1 can be calculated. Two possible factors affecting precision, concentration range and sampling period, were investigated also. The estimated uncertainty was not significantly affected by either of these factors.

#### Determination of the Sources of Uncertainty

This subsection addresses the relative contribution of each of these processes to the total uncertainty. The percentage of the total uncertainty that could be attributed to field procedures was separated from the percentage

# PERCENT UNCERTAINTY BY SAMPLING EVENT FOR FIELD DUPLICATE PAIRS FOR ALL ANALYTES



**Figure 2-8. Total Uncertainty Estimates By Sampling Event.**

that could be attributed to laboratory procedures. This evaluation was important because it could identify strengths and possible areas of inconsistency in the sampling and analysis program.

In addition to the field duplicate samples discussed above, prior to October 1988, replicate laboratory measurements, or laboratory duplicates, were also performed. Laboratory duplicates are obtained by splitting a normal field sample into two parts and analyzing both portions as separate samples. During the fourth sampling period of 1988, instead of laboratory duplicates, matrix spike duplicates were performed, so there are no laboratory duplicate pairs included for that sampling period. The results of laboratory duplicate samples reflect variability due only to the analytical process and not from the sampling procedures. When one of the field duplicate samples is replicated in the laboratory, the results of the duplicate and replicate samples or "nested duplicates" can be used for a variance component analysis. This hierarchical sampling approach was adopted for the third sampling period of 1988 with the objective of obtaining a large enough data set to perform this type of analysis.

The data sets examined contained all the nested duplicate results from the third sampling period of 1988 plus any nested sets that occurred coincidentally in previous samplings. The laboratory duplicates had been selected at random in previous samplings, so occasionally a field duplicate sample was selected as a laboratory duplicate. Only the pairs in which all three results were above the detection limit could be used for the analysis. This collection of results provided from 5 to 20 sets of data for the same analytes that were included in Table 2-1.

The nested duplicate data were analyzed using the SAS (Statistical Analysis System) routine Nested, which is designed specifically for analysis of variance for nested data (SAS, 1987). This procedure computes the variance of individual analytes and combines them into a linear model of variances. The use of this procedure requires data that have as little variance as

possible from other sources besides the sources under study. Because the data sets examined in this study contained samples from various locations, as well as various sampling times, the results were standardized by location and sample date to a common mean and variance before the analysis of variance was performed. The design of the experiment was unbalanced because only one sample of the field duplicate pair was split in the lab for each set.

The results of the analysis of variance are presented in Table 2-3. For the analytes included in the study, the most significant contribution to the overall variability was clearly due to analytical effects. A calculated sampling component of zero percent of the total variance does not imply a lack of variability in that component of the measurement process. Rather, this means that sampling variability is obscured by the observed analytical variability. For example, based on this set of 20 nested duplicate results for TCE, the field duplicate results agree as closely as the laboratory duplicate results. Any additional variability contributed by the sample collection process is negligible relative to the analytical variability.

In interpreting these results, the possible causes of sampling variability for groundwater sampling were considered. First, most of the monitoring wells at McClellan AFB have dedicated sampling systems. That reduces the possibility of variability between two samples collected from the same well at the same time. Second, the sampling teams are experienced and each member has been trained to follow identical protocols for sampling. Third, the field duplicate samples have identical transport and storage conditions and holding times. The only remaining cause of significant sampling variability is from different matrix effects. It should also be noted in evaluating these results that the numbers of sets of results is small for most of the analytes. Nonetheless, based on these samples, the conclusion is that the majority of the uncertainty in the reported concentrations for the key analytes included in this study is attributable to the analytical process, and a relatively insignificant portion can be attributed to sample collection and handling procedures.

TABLE 2-3. ANALYSIS OF VARIANCE RESULTS FOR  
 NESTED DUPLICATE SAMPLES

Analyte	Number of Pairs	Sampling Variance Component Percent of Total	Analytical Variance Component Percent of Total
-----Units are Percent -----			
Trichloroethene	20	0	100
1,1-Dichloroethene	9	0	100
1,1-Dichloroethane	11	0	100
Total 1,2-Dichloroethene	15	12	88
Tetrachloroethene	5	0	100
Chloroform	6	10	90
1,2-Dichloroethane	9	0	100
1,1,1-Trichloroethane	6	50	50

Accuracy

In addition to analyzing precision, the accuracy of the analytical data was assessed. Accuracy is the measure of closeness of an individual measurement to the true value. Accuracy is reported as a percent recovery. For each sample spike  $i$ , the percent recovery,  $P_i$  is calculated by:

$$P_i = \frac{A_i - B_i}{T_i} (100)$$

where:  $A_i$  - the analytical results from the spiked sample.

$B_i$  - the background level determined by a separate analysis of the unspiked sample

$T_i$  - the unknown true value of the spike.

The results of matrix spike analyses from 1986 to December 1988 were included in the study. Three analytes for Methods 8010 and 601 were spiked, 1,1-dichloroethene, trichloroethene and chlorobenzene. The average percent recovery,  $P$ , and standard deviation,  $S_p$ , were calculated. Then the upper and lower warning limits, UWL and LWL, and control limits, UCL and LCL, were calculated. The warning limits, the mean recovery plus or minus 2 standard deviations, are equivalent to a 95 percent confidence interval for the mean recovery. Points outside these limits indicate that a process should be monitored closely. The control limits are the mean recovery plus or minus 3 standard deviations. Points outside the control limits indicate when a process is out of control. The results as well as the acceptance criteria for this method are given in Table 2-4.

Using these results, graphs were constructed in the format of control charts (Figure 2-9). Data for this project do not constitute a true control chart since the purpose of a control chart is to continually monitor the accuracy or precision of the measurement process so that corrective action can be taken immediately when the system is out of control. Examination of



TABLE 2-4. MATRIX SPIKE RECOVERIES

Analyte	Number of Samples	Mean Percent Recovery	Standard Deviation	Warning Limits	Control Limits	Acceptance Criteria
1,1-Dichloroethene	122	96	18	(60,132)	(42,150)	(28,167)
Trichloroethene	123	95	20	(55,135)	(35,155)	(35,146)
Chlorobenzene	124	93	15	(63,123)	(48,138)	(38,150)

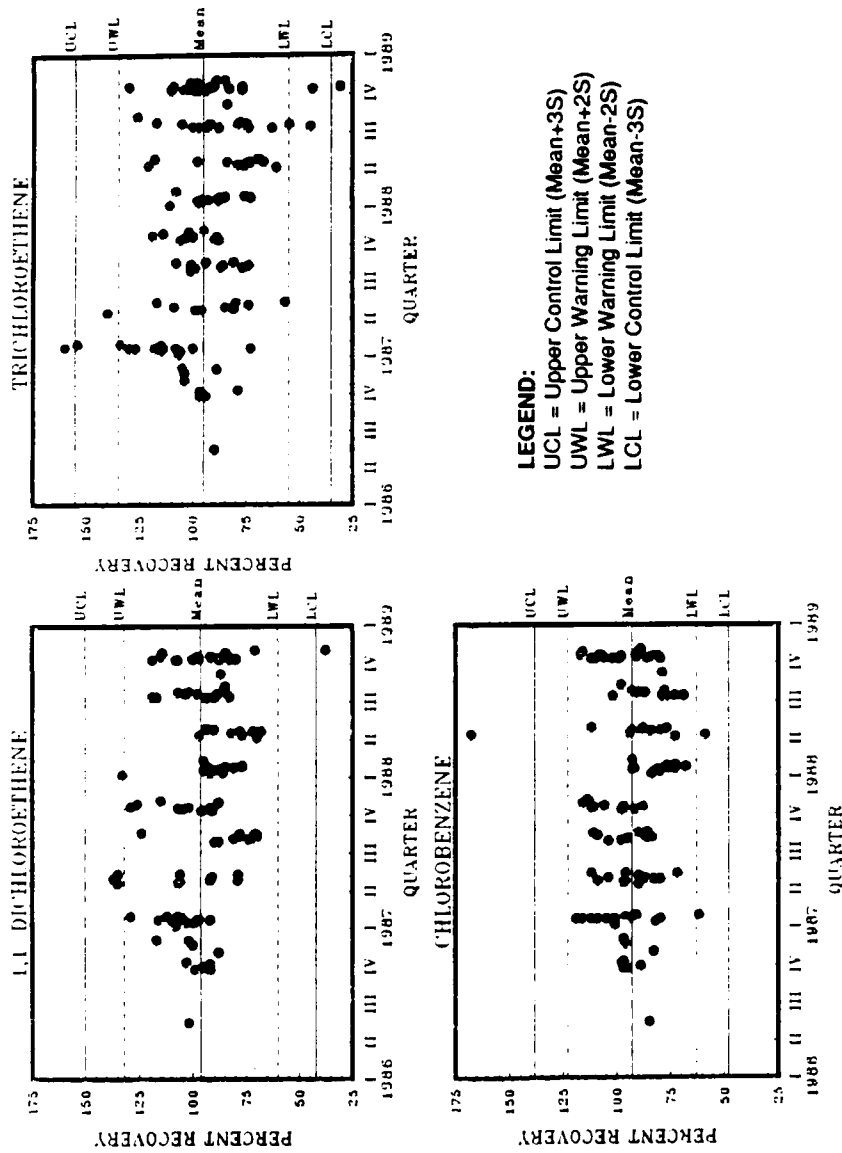


Figure 2-9. Graphs of Matrix Spike Recoveries with Warning and Control Limits.

the graphs show that the results for each round of sampling are bounded within the control limits with only a few random outliers. The 95 percent confidence limits are well within the bounds of the Data Quality Objectives and the acceptance criteria of the method. There are no systematic patterns to the outliers, although some quarters seem to have generally higher or lower than average recoveries. Therefore, the accuracy for these analytes is in control and there is no systematic bias in the data.

## 2.2 Description of Data and Statistical Techniques

The analytical data from all sampling periods from 1985 through 1988 were evaluated to determine the statistical methods that were appropriate to use with this data. The primary use of the analytical data in this report was to identify temporal trends in the analyte concentrations. There are several methods for detecting trends and the choice of method depends on certain characteristics of the data set. Therefore, in this section we present a description of the analytical data including the probability distribution and an investigation of seasonality. Then the methodology of the techniques chosen for trend analysis are presented. The results of the trend analysis for the monitoring wells are presented in the discussions of Section 3.0, Contaminant Distribution and Migration.

### Probability Distribution

An analysis of the probability distribution of the analytical data was previously conducted using the concentrations of contaminants through March, 1988 (Radian, 1988). The analytical data sets were found at that time to be non-normally distributed. Attempts to find a transformation to obtain a normal distribution were unsuccessful. There have been three additional sampling events since that report, so there are now approximately 8 to 11 data points for each monitoring well; therefore, a re-examination of the data sets is necessary.

The analytical data sets used for this study are from 11 sampling events and included both regular samples and QC samples such as field and laboratory duplicate samples. Many of the data sets investigated contained censored values reported as "not detected" (ND) because the analytical results was less than the reported detection limit. The distribution of these censored values is unknown. In addition, all data sets contained some missing values for sampling periods during which the well was not sampled. Examination of the concentrations of each analyte by groundwater zone shows the detectable concentrations to be skewed to the right or positively skewed due to the large number of low concentrations reported. In addition, the data sets are not likely to have similar distributions for even one analyte across zones (Hirsh, 1988). This is because of the behavior of different analytes in groundwater and the heterogeneous nature of the alluvial material beneath McClellan AFB. Many factors such as the specific analytes, the ranges of concentration and the sources of contamination vary between groundwater zones.

Given that the distributions are not symmetrical, the normal distribution cannot provide a good fit for the data. One possible technique to obtain a normal distribution is to apply some transformation and analyze the transformed data set. Transformations using the natural logarithm and the square root of the concentrations were performed. Each was tested for goodness of fit to the normal distribution using the Shapiro-Wilk W statistic (Gilbert, 1987). Neither of the transformation yielded a normal distribution.

This result is not unusual for groundwater data. Hirsch states that many hydrologic variables such as analyte concentrations are distinctly non-normal (1984). Furthermore, it is difficult to determine the distributions of groundwater variables with the amounts of data which monitoring projects typically have available (McNichols, 1988). Therefore, distribution free non-parametric procedures have been chosen to use with the analytical data that allow missing and censored data values.

### Seasonality

The data sets were tested for seasonal variation because the existence of seasonality would influence the choice of technique for trend detection. That is, if seasonality is determined to be an important factor, a method that is not affected by seasonal cycles should be used. There are currently four sampling periods per year that roughly correspond to the four seasons of the year. However, the exceptions to this are the two sampling events during both 1985 and 1986 that do not coincide exactly with the current schedule. By using the sampling date, the data values were divided into four three-month seasons per year starting in January. The Kruskal-Wallis test was used to determine if all seasons have equal mean concentrations (Hirsch et al., 1982). The Kruskal-Wallis test, which is a non-parametric test, will determine if the measurements from one season tend to be consistently larger or smaller than those from at least one other season.

The Kruskal-Wallis test was applied, with a 90 percent confidence level, to data for each monitoring well that had been sampled at least eight times and that showed detectable concentrations for one of the key analytes. From the 223 data sets tested, only 3 wells showed evidence of a difference in the mean concentrations of TCE for two or more seasons. This group of wells consisted of MW-129, MW-36S and MW-57. Since the data sets are small (in most cases there are only two data points for each quarter), the test cannot distinguish between the means except in extreme cases. Therefore, we conclude that there is not enough evidence at this time to make a general statement as to the existence of seasonal concentration changes. Future sampling periods may provide the quantity of data necessary to make this judgement.

### Trend Analysis Methodology

Because the data sets are not normally distributed and there is no evidence of seasonality, the test chosen to detect monotonic temporal trends

is the Mann-Kendall non-parametric test for trend (Gilbert, 1987). The Mann-Kendall test is appropriate since missing quarters of data as well as censored data values such as "not detected" are allowed. In addition, the test is distribution free. Only the relative ranks of the concentration data are compared, not the magnitude of difference in concentrations. The confidence coefficient chosen for this test is 90 percent. The analytes included are the key analytes, and in some cases, other purgeable halocarbons that were present in a monitoring well such as trichlorofluoromethane (TCFM) were also included.

The purpose of the trend analysis was to determine which monitoring wells show a long-term increase or decrease in the mean concentration of an analyte over time. A test of hypothesis was used as a basis for deciding on the presence of a trend. For this type of test, a null hypothesis is defined as the hypothesis being tested. The null hypothesis, in this case, is that there is not trend. The alternative hypothesis is the hypothesis that will be accepted if there is sufficient evidence to reject the null hypothesis. The decision to accept or reject the null hypothesis is based on the results of a statistical test and the confidence level that was chosen.

Under the null hypothesis of no trend, fluctuations in the concentrations of a contaminant over time do not indicate a statistically significant increasing or decreasing trend. However, although a trend cannot be detected, this does not imply that the concentrations are stable or constant, only that the fluctuations have a random pattern. The two-sided alternative hypothesis is that there is either an increasing or decreasing monotonic trend over time. Under the alternative hypothesis, the analyte concentrations can vary in both directions and still have a long-term trend. Intermittent or single release sources will not necessarily exhibit steadily increasing or decreasing trends in contaminant concentrations.

Once the presence of a trend has been established, the magnitude of the trend should be estimated to determine if the concentrations are changing rapidly or only slightly. The magnitude can be visually evaluated from the

time series plots of concentration versus time (included in Section 3.0, Contaminant Distribution and Migration); however, it is often useful to quantify the magnitude. Therefore, if a trend was present, an estimate of the change per sampling period was calculated to show the approximate rate of change for the concentrations. The statistical method used was Sen's non-parametric estimator of slope which is the median of the set of all slopes that can be calculated between any two data points (Gilbert, 1987). Sen's estimator can be used when data are missing. This estimate of the rate of change should be interpreted only as an indication of the steepness of the trend and not as a predictor of the expected or average rate of change per sampling period because the actual rate of change is not constant.

Along with Sen's point estimate of slope, a 90 percent confidence interval for the true slope was found for some wells using the method described by Gilbert (Gilbert, 1987). Gilbert's method for generating the confidence interval is based on the normal distribution and is valid when there are at least ten sampling periods. Therefore, only wells that have been sampled at least ten times have this estimator of slope. Since the concentrations may vary greatly in both directions from quarter to quarter and still show an overall trend in one direction, Gilbert's confidence interval is preferred to Sen's point estimate when applicable, because it incorporates the variability into the estimate and gives a range of values for the slope. A large confidence interval is an indication that the concentrations vary greatly between sampling events and that the magnitude of the trend cannot be estimated accurately.

### 2.3 Conclusions

Several important objectives concerning the analytical results for the key analytes have been accomplished through the use of carefully chosen statistical procedures. First, an assessment was made of the quality of the analytical data by investigating the uncertainty in the analyte concentrations. Next, the appropriate techniques for trend analysis were chosen based on various characteristics of the analytical data sets.

First, the uncertainty inherent in the analytical results due to the sampling and analytical processes was quantified. The field duplicate results from all sampling periods were used to calculate precision estimates for the eight analytes that have a sufficient number of quantitative pairs. These estimates are based on an upper 95 percent confidence limit for the mean RPD for the analytical results with at least 20 pairs of duplicates. The estimates for the two analytes with less than 20 pairs were obtained using a nonparametric technique for obtaining a confidence interval about the median. These uncertainty estimates provide a means of calculating a 95 percent confidence interval for reported values of any of these analytes.

Global application of these estimates to the entire set of results for these analytes depends on the representativeness of the samples upon which the estimates are based. The sets of field duplicate samples were plotted and analyzed to ensure that the pairs are highly correlated, have few outliers and that the differences are random. In addition, the mean RPD was determined to be constant over the entire range of concentrations for each analyte. The data sets were also grouped by sampling period and the uncertainty was shown to be consistent between sampling periods.

There are several advantages to using the confidence interval instead of the reported concentration of an analyte. The confidence interval accounts for the mean variability in the concentrations from random sources with an associated level of confidence (95 percent). Having quantified these sources of variability, fluctuations beyond this interval can be investigated for systematic sources of variability, such as a trend. Graphical representation of this uncertainty interval on the time series plots makes the distinction between random and other fluctuations in the concentrations immediately evident. This interval also provides documentation of the quality of the data. The range of uncertainty estimates is from 15 percent to 29 percent. The high-quality data in terms of precision, which has been collected by Radian, indicates a consistent and controlled sampling and analysis program.



The final analysis of the quality of the analytical data involved the division of the uncertainty into two components corresponding to sampling effects and laboratory effects. In order to accomplish this, nested duplicate analyses were designed in which field duplicate samples were chosen as laboratory duplicate samples. An analysis of variance was performed on the sets of the results of the nested duplicate samples. Only three of the analytes showed measurable sampling uncertainty, suggesting that the sampling uncertainty for the majority of analytes is obscured by the analytical uncertainty.

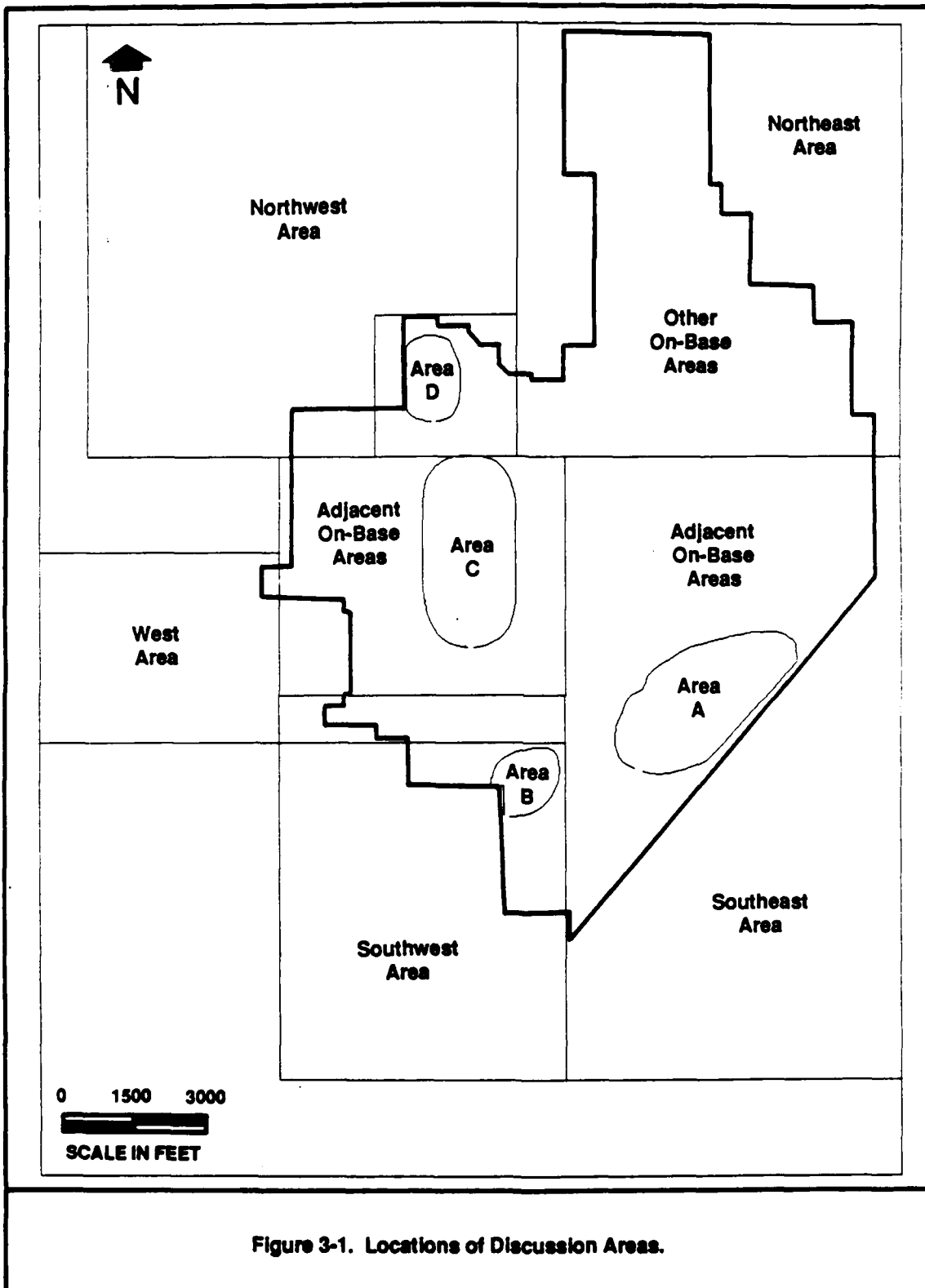
Next, the selection of trend analysis techniques was based on the description of data. The probability distributions of the analyte concentrations for the key analytes were explored. The non-normal distributions of the analyte concentrations suggest that nonparametric techniques should be employed for use with this data. Furthermore, using a nonparametric technique, we concluded that there is insufficient evidence of seasonality at this time. As a consequence, the technique which was selected for detecting temporal trends was the Mann-Kendall nonparametric test for trend. The methods to be used for the magnitude of the trends are Sen's nonparametric slope estimator and Gilbert's confidence interval for the true slope. The results of the trend analysis are discussed in Section 3.0, Contaminant Distribution and Migration.

### 3.0 CONTAMINANT DISTRIBUTION AND MIGRATION

Evaluation of contaminant distribution and apparent contaminant migration that has occurred since groundwater monitoring began in 1981 is presented in this section. Hydrogeologic and analytical data are discussed on an area by area basis even though the areas are not hydraulically isolated from each other. The review of each area focuses on the following:

- Potential sources of groundwater contaminants;
- Hydrogeologic data;
  - local geology,
  - groundwater flow directions,
  - influences on groundwater flow,
  - gradients,
- Horizontal and vertical distribution of contaminants;
  - historical versus present occurrence,
- Discussion;
  - estimated groundwater flow velocities,
  - trend analysis, and
  - apparent migration through time.

The areas to be discussed below were designated by a previous contractor based on the known locations of hazardous material in 1981. Subsequent investigations have identified additional potential and confirmed locations. The on- and off-base area designations are used in this report for the purposes of discussing the hydrologic and analytical data. However, discussion areas are still linked together by regional groundwater flow and the pumping of on- and off-base water supply wells. Figure 3-1 shows the locations of the discussion areas.

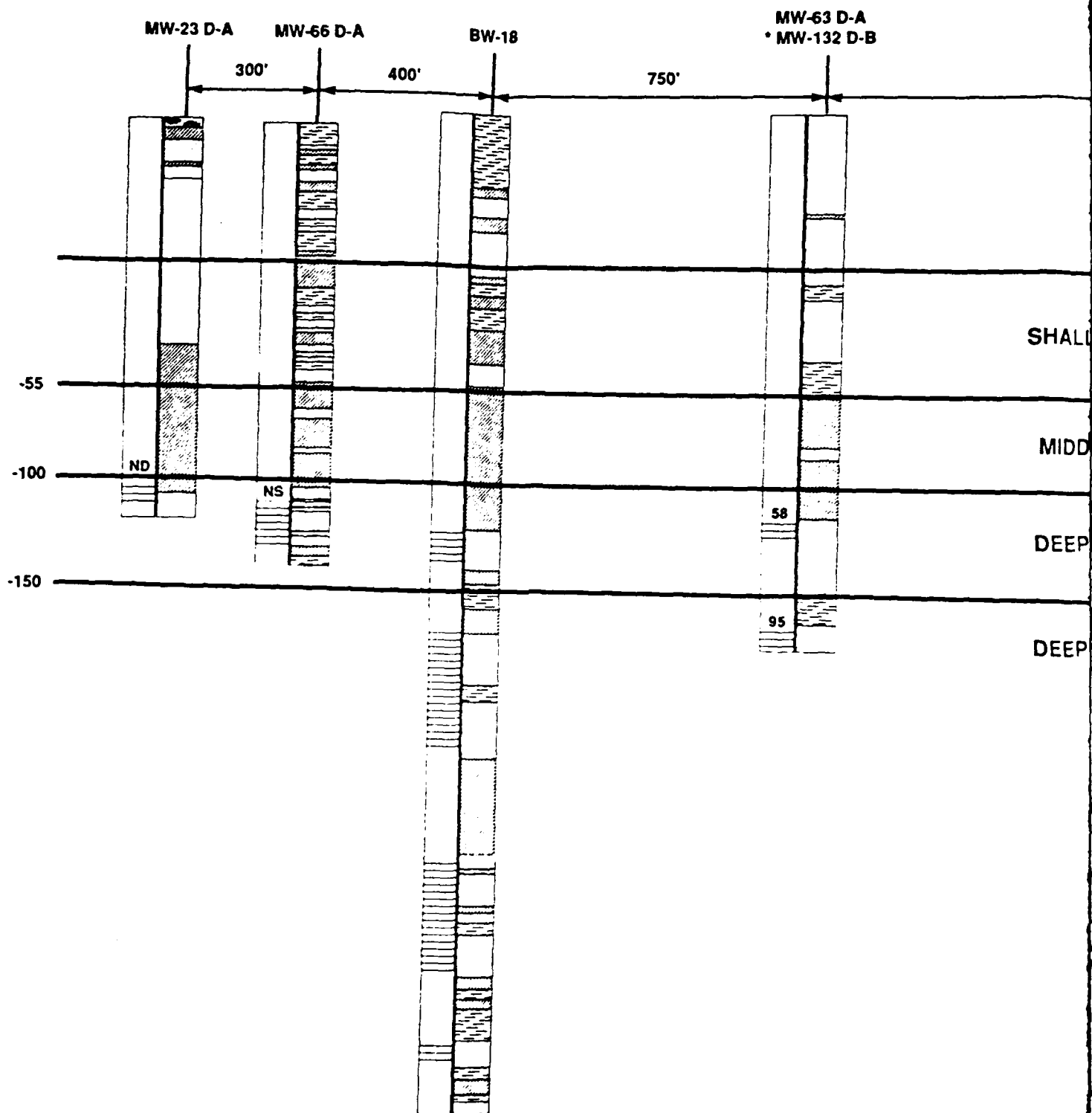


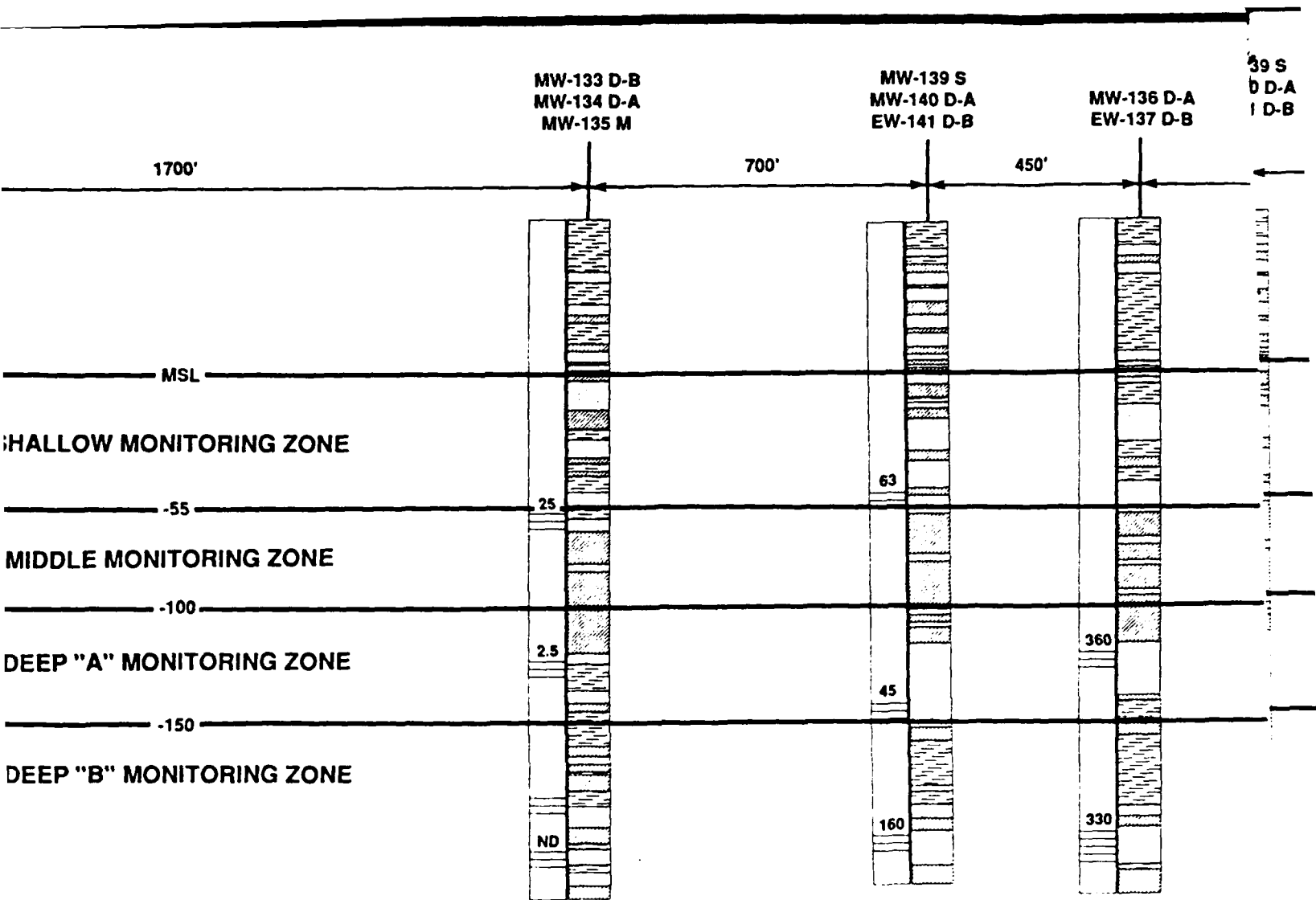
The analytical results for groundwater samples have been divided into two groups. Analytical data have been documented and evaluated by Radian since 1985. The analytical data and supporting Quality Assurance/Quality Control (QA/QC) data are used to determine variability and uncertainty, and to define contaminant concentration trends over time. There are also analytical results for water samples collected before 1985. QA/QC procedures for these data could not be evaluated, therefore these data have been used qualitatively to identify the historical occurrence of contaminants in the groundwater.

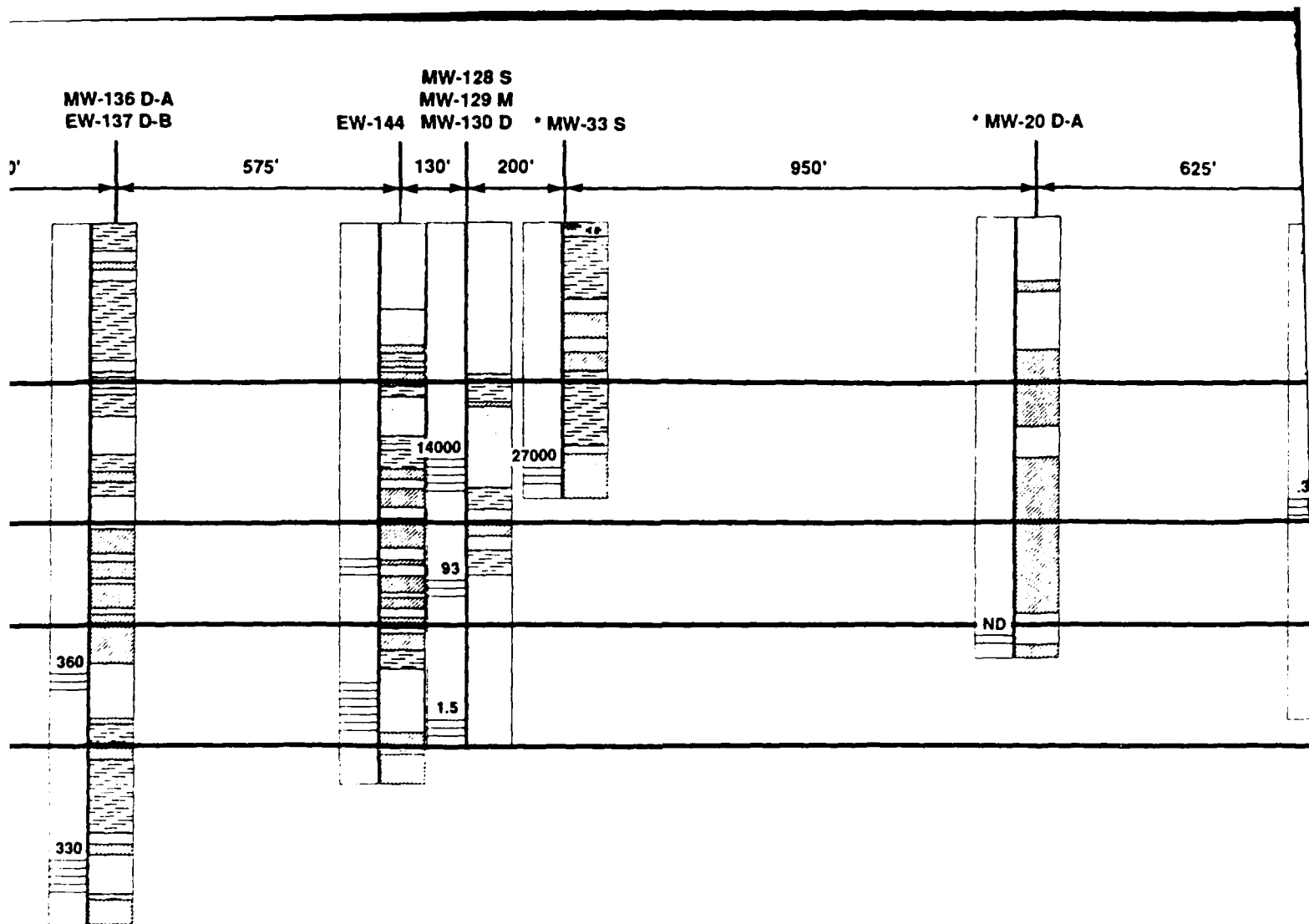
The analytical data presented in this section are for the following compounds: trichloroethene (TCE), tetrachloroethene (PCE), 1,1-dichloroethane (1,1-DCE), total 1,2-dichloroethene (total 1,2-DCE), 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethane (1,1-DCA), 1,1,1-trichloroethane (1,1,1-TCA), vinyl chloride, chloroform, and carbon tetrachloride. These analytes have been detected in monitoring wells across the base. Of these key analytes, TCE is the most commonly detected, and much of the area discussions focus on the distribution and migration of TCE. A complete listing of all analytical results from 1985 through December 1988 is found in Appendix B.

Trend analyses were conducted to determine which monitoring wells showed longterm increases or decreases in concentrations of the key analytes identified above. A total of 43 statistically verifiable contaminant concentration trends were found in 23 monitoring wells. These trends are discussed in the following subsections. The assumptions and methods used in the trend analysis are described in Section 2.2.

A hydrogeologic stick diagram that shows the lithology and TCE concentrations detected in selected wells is shown in Figure 3-2. These wells run along a south-north line from Area B through Area C to Area D. The vertical to horizontal exaggeration is approximately 5:1. The figure shows that along this north-south trace most of the TCE detected in Area D is in the shallow and middle monitoring zone. In Area C and Area B there is significant TCE contamination in the shallow, middle, and deep "A" monitoring zones.







\* MW-20 D-A

MW-62 S

\* MW-36 S

625'

1550'

MSL

SHALLOW MONITORING ZONE

-55

MIDDLE MONITORING ZONE

-100

DEEP "A" MONITORING ZONE

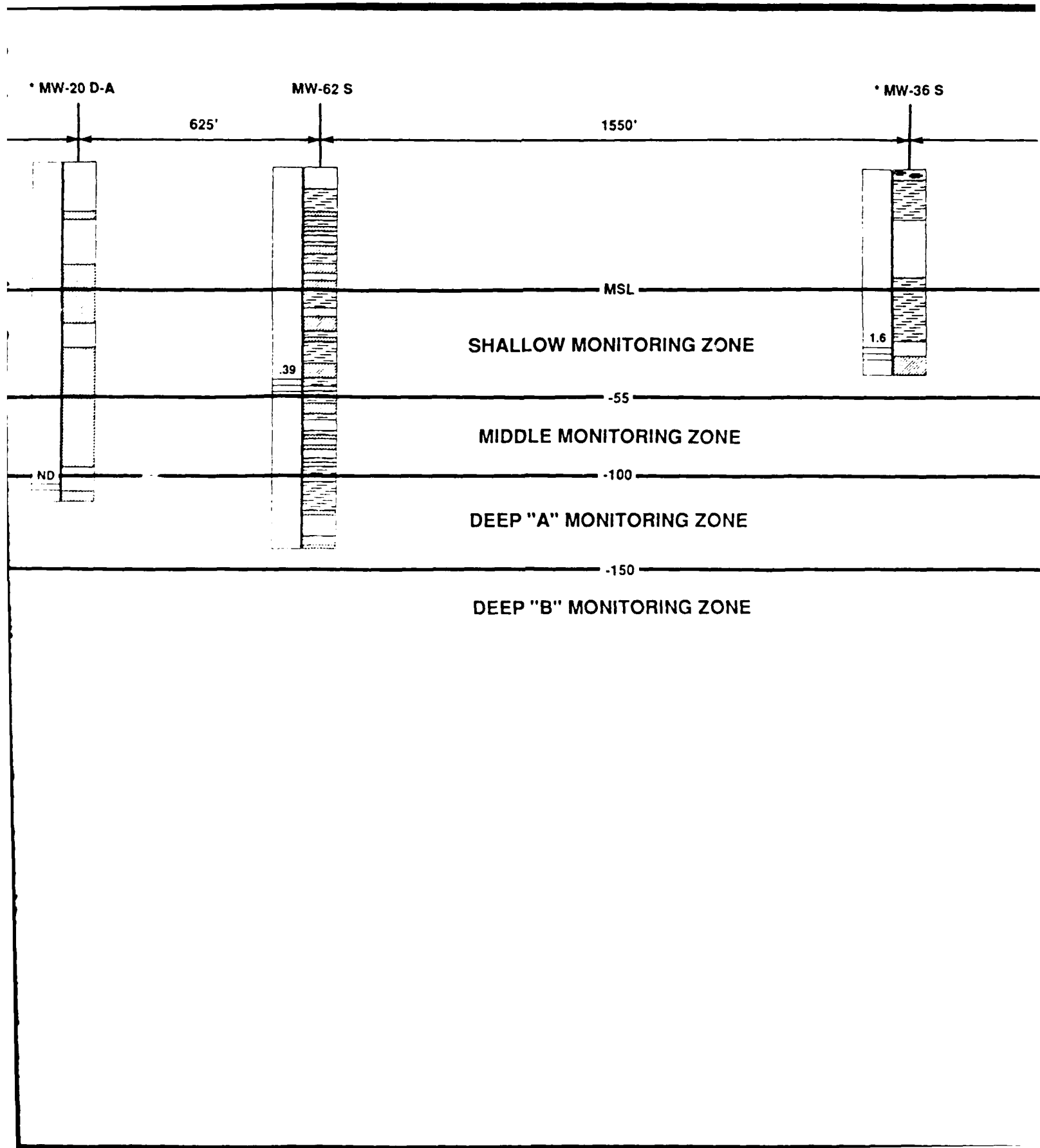
-150

DEEP "B" MONITORING ZONE

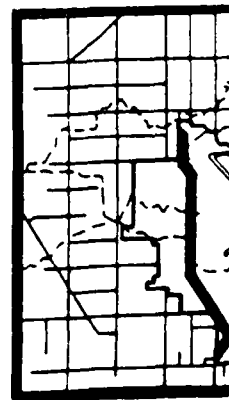
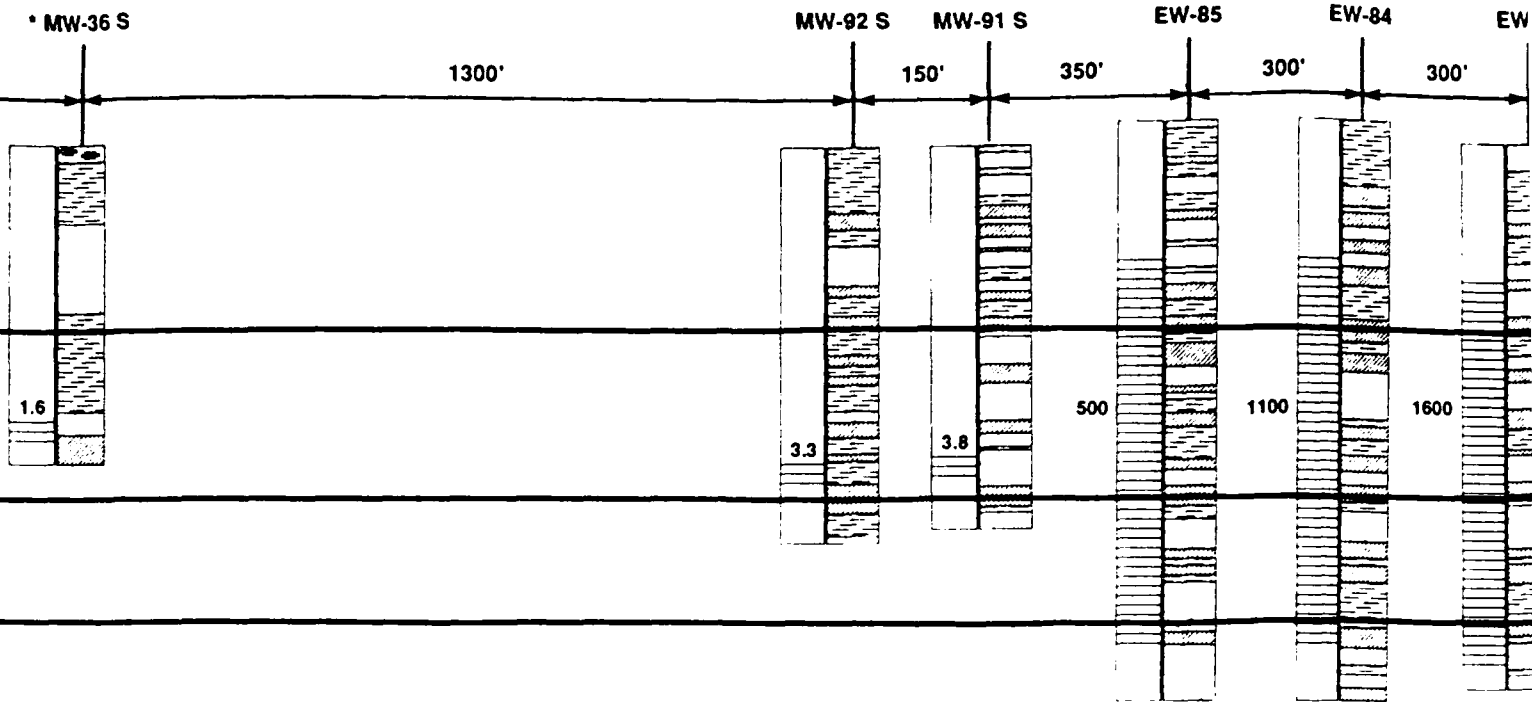
.39

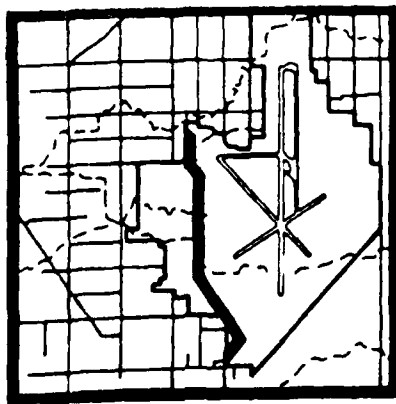
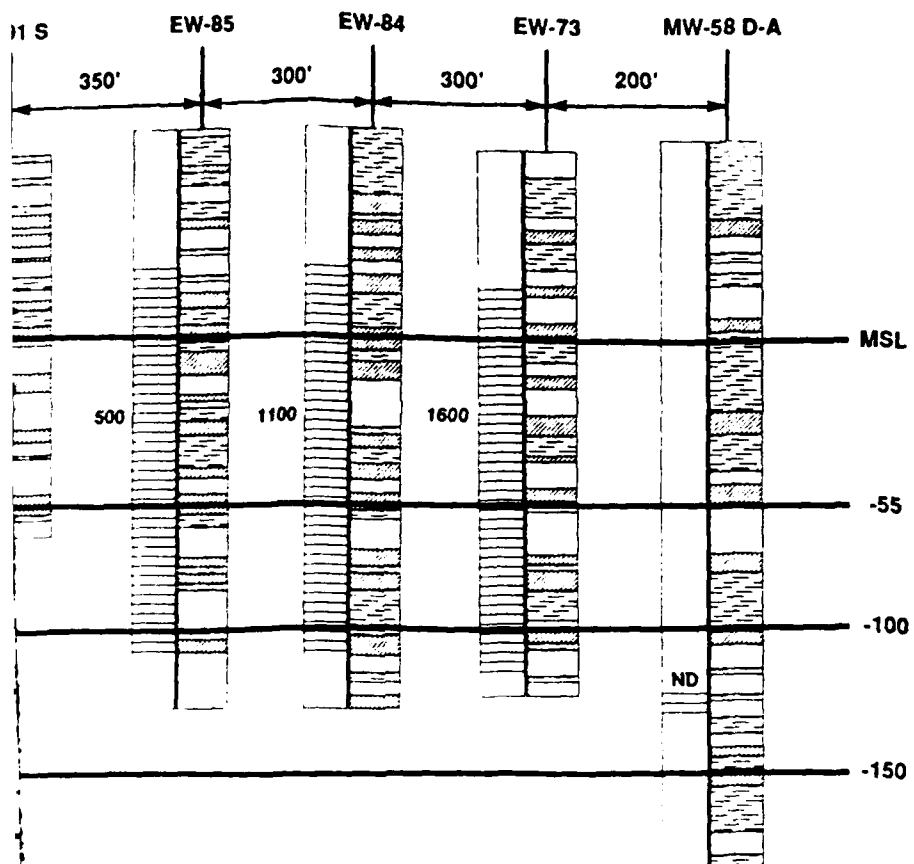
1.6

ND









To present the areal distribution of TCE contamination, concentrations of TCE detected in monitoring wells across the base were used to estimate lines of equal concentration in the shallow, middle and deep "A" monitoring zones (Plates 5, 6, and 7). The TCE contours approximate the TCE distribution by monitoring zone based on results from the last sampling event of 1988. Although site specific information about sources is not included on the plates, the contours do reflect general source areas and groundwater flow directions. Comparison of the three plates also provides a picture of the distribution differences in the vertical dimension.

As shown on the maps of estimated TCE distribution (Plates 5, 6, and 7), there are few monitoring wells from which to collect samples in Area A. The lack of contours does not necessarily indicate there is little contamination in Area A, only that there is limited data.

In Area B, there are a few wells for each monitoring zone. There is at least one monitoring well in each monitoring zone with TCE concentrations above drinking water standards. The contours may be adjusted after more analytical data are collected when the Preliminary Groundwater Operable Unit Remedial Investigation (PGOURI) (Radian, March 1989) and Area B Operable Unit Remedial Investigation (Radian, February 1989) are implemented.

In Area C, there are more wells from which to collect analytical data. Trichloroethene concentrations indicate levels that are above state and federal drinking water standards in all three monitoring zones. The highest levels of TCE in Area C have been detected in the shallow monitoring zone (Plate 5). There also appears to be a larger areal extent of contamination in the shallow zone than in the middle and deep "A" monitoring zones (Plates 5, 6, and 7). The TCE concentrations and contours for all three monitoring zones indicate that there has been both vertical and horizontal migration of the contaminants.

Within Area D the shallow monitoring zone shows the most widespread and highest levels of TCE contamination (Plate 5). In the middle monitoring

zone, TCE contamination appears to be confined to a small area within Area D (Plate 6). Based on limited results from the three deep zone monitoring wells, there are low levels of contaminants in this zone within Area D (Plate 7).

The three plates of estimated TCE concentration contours show that the highest detected levels of TCE are in the shallow monitoring zones beneath Areas C and D. The plates also show that most of the detected TCE contamination is found on the western side of the base. The distribution and apparent migration of TCE and other contaminants are discussed in more detail by area in the subsections that follow.

• The individual areas are discussed as follows:

- Area A, Adjacent On-Base Areas, and the Southeast Area: These are discussed together because of the proximity of the two areas. However, the Southeast Area may be located downgradient of Area A;
- Area B, Adjacent On-Base Areas, and the Southwest Area: These are presented together because of the proximity of the two areas and the effect of on- and off-base pumping on both areas;
- Area C and Adjacent On-Base Areas: This discussion encompasses Area C proper and a large portion of the western side of the Base;
- West Area: This discussion includes monitoring wells located off-base west of Area C. This discussion is not included with Area C because only low levels of contamination have been detected in some of the the monitoring wells and groundwater flow is presently towards the base. Thus, there is limited potential for off-base migration of contaminants;

- Area D, Adjacent On-Base Areas, and the Northwest Area: These are presented together because of the effect of the Area D extraction system on the Northwest Area and because of the high levels of contamination detected in offbase monitoring wells located close to Area D;
- Other On-Base Areas; and
- Northeast Area.

### 3.1 Area A and Adjacent On-Base Areas and the Southeast Area

Area A is located in the southeast portion of McClellan AFB (Figure 3-1). The outer boundary of Area A was determined by CH2M Hill based on historic waste use and disposal activities identified during record searches conducted during 1981. Since 1981, other potential release locations (PPLs) have been identified outside of the boundaries established by CH2M Hill. Potential release locations located outside of the Area A boundary are referred to as located in "Adjacent On-Base Areas."

The Southeast Area is described as the area immediately off base, southeast of Area A. It is discussed in this section with Area A because of its proximity to Area A and its potential for being downgradient from Area A.

Industrial activities have occurred in Area A since the opening of the base in 1936. Past operations in this area of the base have included the storage, use, and/or disposal of solvents, fuels, refuse, scrap metals, and industrial sludges. Discharge of these chemicals and waste to the soil from these operations is the probable cause of water quality degradation in this part of the base.

Area A was the first area where groundwater contamination was detected at the base. Base water supply well BW-7 (constructed in 1942) was taken out of service in 1956 and abandoned (destroyed) in the 1970s due to the

presence of an "oily substance" in the well. The substance was described as either an oil, solvent, or jet fuel (McLaren, 1986). Trichloroethene was detected in samples from BW-1 and BW-2, and from BW-12 at concentrations exceeding drinking water standards in 1979 and 1980, respectively. These water supply wells were subsequently removed from service. These three wells are located northeast of Area A (Figure 3-3).

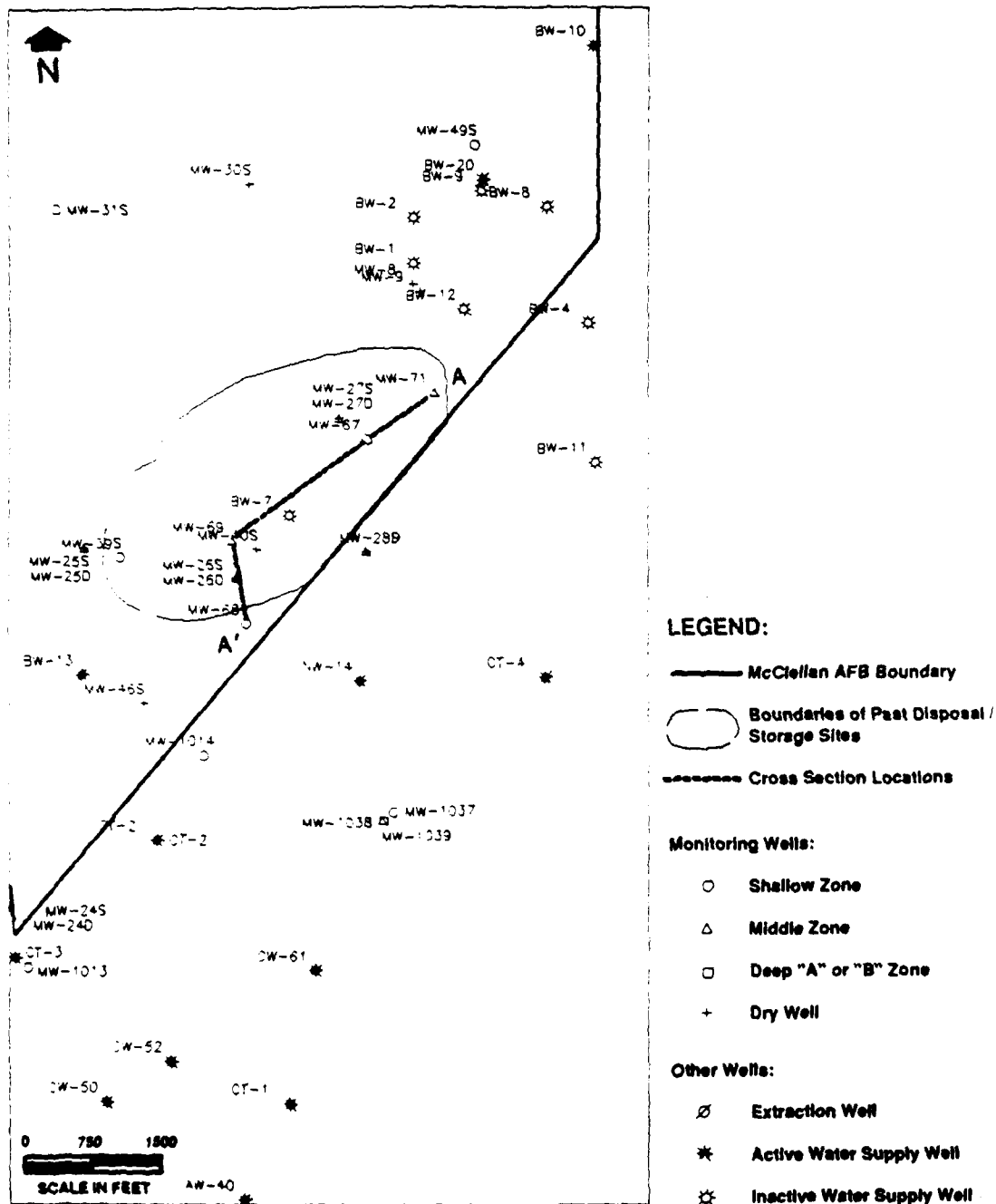
There are currently 15 monitoring wells located in Area A and Adjacent On-Base Areas and, 7 in the Southeast Area (Figure 3-3). Tables 3-1 and 3-2 lists monitoring wells which are currently included in the groundwater monitoring network, wells which are not included, and those which are dry.

#### 3.1.1 Potential Sources of Groundwater Contamination

There are 47 Unstudied Potential Release Locations (UPRLs), 4 Partially Studied Potential Release Locations (PSPRLs), and 1 confirmed site (CS) located in Area A and Adjacent On-Base Areas (Figure 3-4). With the exception of CS 38, the partially studied sites (25, 37, 39 and 40) in Area A do not appear to be significantly contributing to groundwater contamination. However, additional sources may be responsible for the present distribution of contaminants. Possible additional sources include the 47 UPRLs in this areas as well as UPRLs located on-base just north of Area A (McLaren, 1986).

#### 3.1.2 Hydrogeologic Data

Although soils in the vicinity of Area A have been classified as Urban Land (covered by pavement and buildings) by the United States Department of Agriculture (USDA), the soils within Area A are probably similar to those identified surrounding Area A. Soils immediately adjacent to Area A have been designated as the Xeralfic Arents-Urban Land Complex.



**Figure 3-3. Wells Located in Area A and Adjacent On-Base Areas, and the Southeast Area.**

TABLE 3-1. MONITORING WELLS LOCATED IN AREA A AND ADJACENT ON-BASE AREAS

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells <sup>a</sup>	Abandoned (Grouted)	Total Number of Wells
Shallow	MW-67 <sup>c</sup> MW-68 <sup>c</sup>	None	MW-25 <sup>b</sup> MW-39S <sup>b</sup> MW-40S <sup>b</sup>	MW-8 <sup>b</sup> MW-9 <sup>b</sup> MW-26S <sup>b</sup> MW-27S <sup>b</sup> MW-46S <sup>b</sup>	10
Middle	MW-27D <sup>b</sup> MW-69 <sup>b</sup> MW-71 <sup>d</sup>	MW-25D <sup>b</sup> MW-26D <sup>b</sup>	None		5
Deep	None	None	None		0
Total Number of Wells	5	2	3	5	15

<sup>a</sup> Under consideration for abandonment.

<sup>b</sup> Samples collected from these wells have contained TCE.

<sup>c</sup> Well contained one of the 10 key analytes other than TCE.

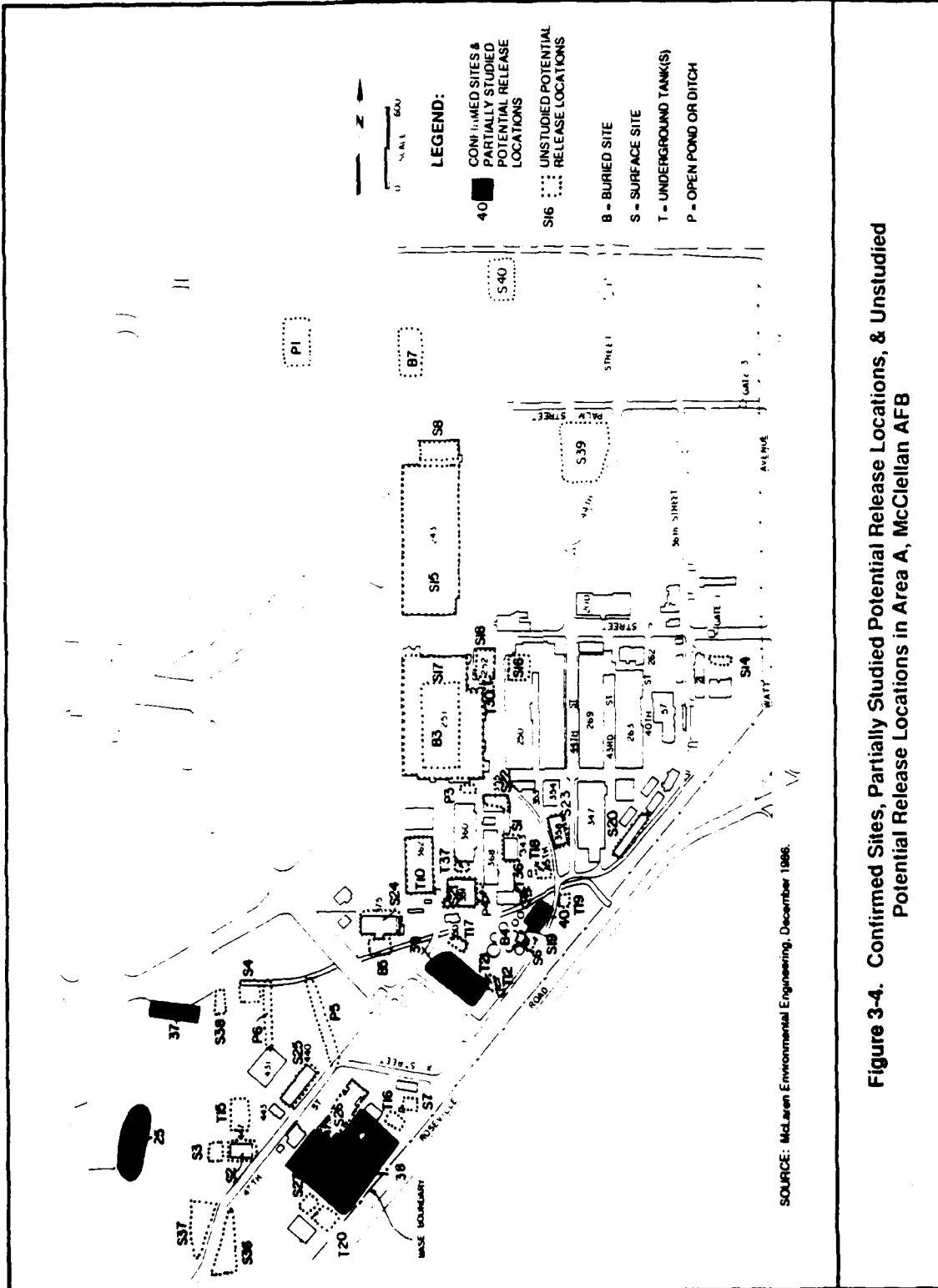
<sup>d</sup> Well contained a compound other than one of the 10 key analytes.



TABLE 3-2. MONITORING WELLS LOCATED IN THE SOUTHEAST AREA

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells <sup>a</sup>	Abandoned (Grouted)	Total Number of Wells
Shallow	MW-1013 MW-1014 MW-1037	None	None	MW-28S	4
Middle	MW-28D <sup>b</sup> MW-1038 <sup>b</sup>	None	None		2
Deep	MW-1039	None	None		1
Total Number of Wells	6	0	0	1	7

<sup>a</sup> Under consideration for abandonment.<sup>b</sup> Samples collected from these wells have contained TCE.

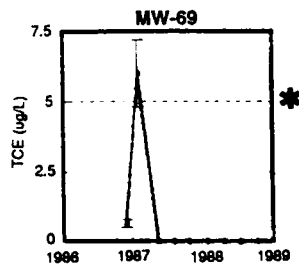
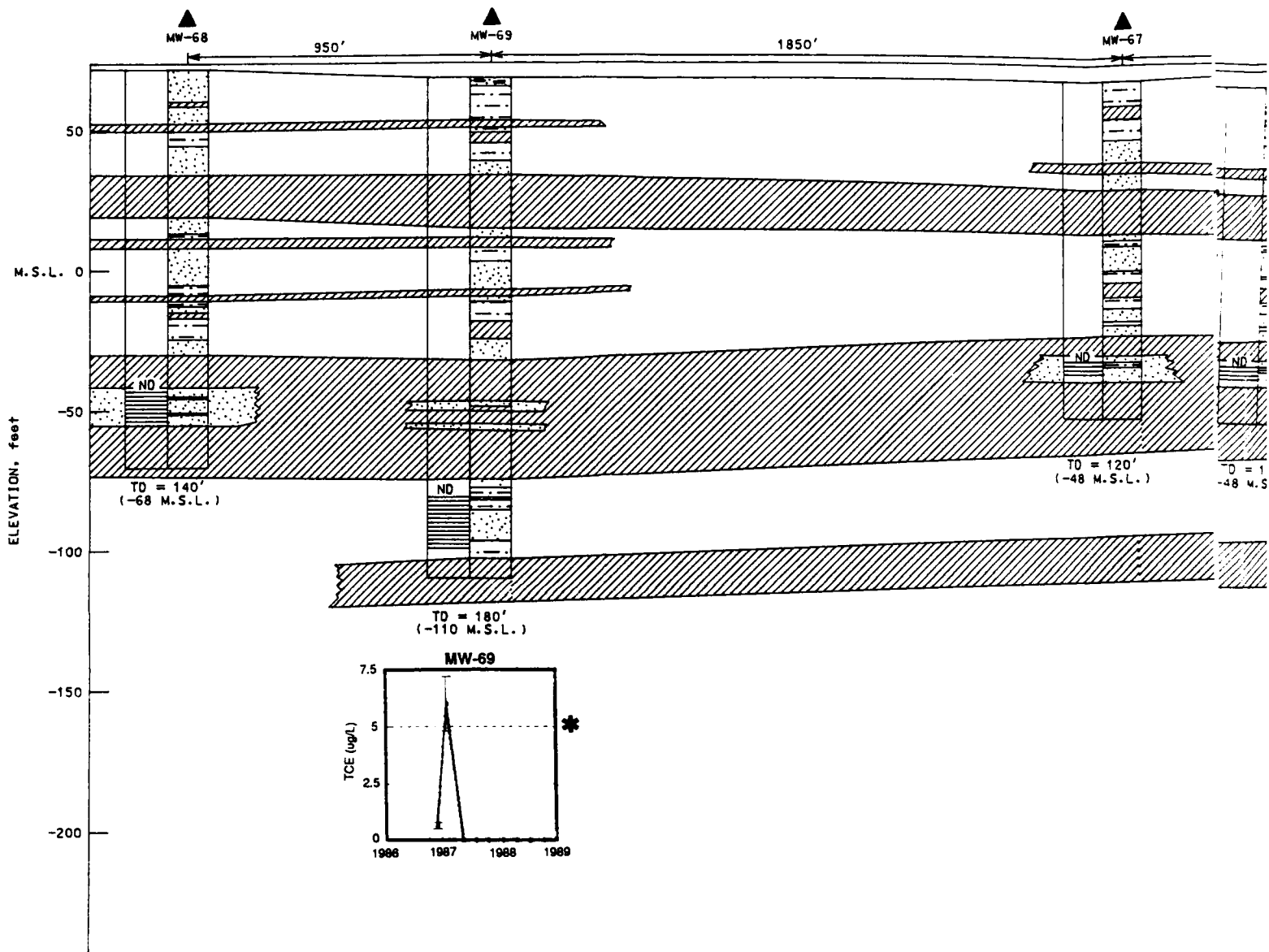


A southwest to northeast cross section A-A' depicting subsurface deposits beneath a portion of Area A and Adjacent On-Base Areas is shown in Figure 3-5. The surface trace of the cross section is shown in Figure 3-3. The geologic setting beneath Area A is characterized by interbedded fluvial deposits of sands, silts, and clayey silts. A laterally extensive zone dominated by clayey silts occurs at a depth of approximately -25 to -75 feet below mean sea level (msl). This fine-grained zone correlates well with a similar zone found in Areas B and C but not in Area D.

Four shallow-zone monitoring wells and six middle-zone monitoring wells are used to produce potentiometric surface maps in Area A, Adjacent On-Base Areas, and the Southeast Area. There is currently only one deep-zone monitoring well within these areas, MW-1039, and it is located in the Southeast Area. Therefore, not enough data exists for these areas to construct a deep zone potentiometric surface map. Potentiometric surface maps produced during late September 1988 for the shallow and middle monitoring zones indicate that the direction of groundwater flow within Area A, Adjacent On-Base Areas, and in the Southeast Area is to the west-southwest.

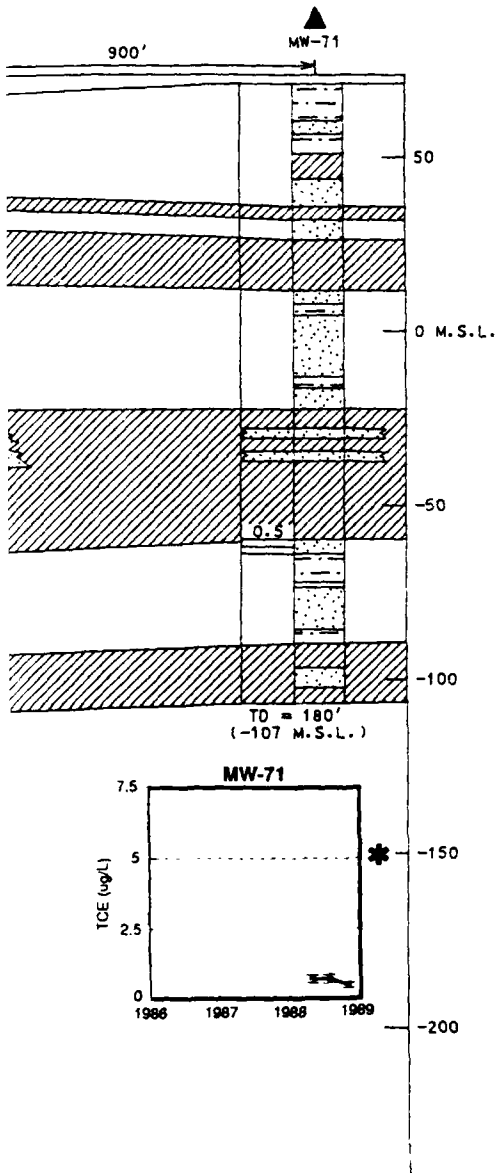
There are two active water supply wells located in the vicinity of Area A. BW-10 is located approximately 4000 feet northeast of Area A, and Northridge Water (NW) District water supply well NW-14 is located approximately 1200 feet southeast of Area A. Base water supply well BW-10 is pumping at an average rate of 900 gallons per minute (gpm) and NW-14 is currently pumping at an average rate of 1200 gpm. The extent of BW-10's influence on groundwater flow cannot be determined because there are no monitoring wells nearby. In addition, the effects of pumping by NW-14 on the groundwater flow regime cannot be determined at this time because increased pumping of this well began in October 1988 after water levels were measured. Therefore, potentiometric maps produced for September 1988 do not reflect influences of pumping by NW-14. Prior to October 1988, NW-14 operated at approximately 400 gpm only during the summer months of peak demand.

A  
SW



\* DHS and EPA Action Levels equal to 5ug/L

A'  
NE



**Figure 3-5.**  
**Subsurface Profile, Area A**

## LEGEND

- ▲ MONITORING WELL (MW)
- EXTRACTION WELL (EW)
- ☼ BASE PRODUCTION WELL (BW)
- M.S.L. MEAN SEA LEVEL
- TD TOTAL DEPTH

- SAND
- SILT
- CLAYEY SILT
- NO DATA
- SCREEN INTERVAL

## SCALE

HS: 1" ≈ 458'  
VS: 1" ≈ 54'  
VE ≈ 8.5

NOTE: TCE CONCENTRATIONS ARE REPORTED NEXT TO SCREEN INTERVALS  
IN µg/L FOR OCTOBER THROUGH DECEMBER, 1988 SAMPLING PERIOD.  
ND = NOT DETECTED

GENERATED BY: *John Samalman* 7-20-89  
PROJECT REVIEW: *Mary McBride* 7-21-89  
PEER REVIEW: *John P. Thompson* 7-21-89

**RADIAN**  
CORPORATION

To aid in further evaluations of the groundwater flow regime in this area, Radian has proposed the installation of several monitoring well clusters consisting of shallow, middle, and deep zone monitoring wells. The cluster will be located within, northeast, and southeast of Area A. Water level measurements from these wells will help to better define the direction of groundwater flow in Area A, the Southeast Area, and the area northeast of Area A. Construction of the monitoring well clusters is planned for the summer of 1989 and will be done as part of the PGOURI (Radian, March 1989).

The potentiometric surface maps indicate that there have not been significant changes in groundwater flow directions in Area A, Adjacent On-Base Areas, and the Southeast Area since October 1986 based on the limited number of monitoring wells. Hydraulic gradients have not changed significantly either (Table 3-3) over the last year. Calculated horizontal hydraulic gradients range from 17.8 to 24.3 ft/mile.

#### 3.1.3 Horizontal and Vertical Distribution of Contaminants

A total of twenty-two monitoring wells are located in Area A, Adjacent On-Base Areas, and in the Southeast Area. Since June 1985 samples have been collected from thirteen of the wells. Samples collected from seven of those wells have contained detectable concentrations of some of the key analytes on which this report focuses. Ranges in concentrations of the key analytes found for the period of 1985 through 1988 are shown in Tables 3-4 and 3-5.

Of the 10 key analytes, TCE is the most frequently detected. A comparison of wells that have historically contained TCE versus wells containing TCE during the October 1988 sampling event is shown by monitoring zone in Figures 3-6, 3-7 and 3-8. Trichloroethene has been historically detected in 7 shallow zone monitoring wells, all of which are now dry. Middle zone monitoring wells that have historically contained TCE continue to show detectable levels of TCE. Samples from the only deep well (MW-1039) in the Southeast Area have never contained TCE.

Table 3-3. Horizontal Gradients of Selected Well Pairs in  
Area A and the Southeast Area

Well Pair	Monitoring Zone	Distance (feet)	Head Difference (feet)	Gradient (feet/mile)
4Q87				
MW-1014/MW-1037	Shallow	2173	8.30	20.2
MW-28D/MW-69	Middle	1470	6.64	23.8
4Q88				
MW-1014/MW-1037	Shallow	2173	7.33	17.8
MW-28D/MW-69	Middle	1470	6.77	24.3

# **RADIAN** CORPORATION

TABLE 3-4. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES <sup>a</sup>  
 IN MONITORING WELLS LOCATED IN AREA A AND ADJACENT ON-BASE AREAS  
 FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/l.			
Shallow	1,1-Dichloroethene	0.4	0.4
	Total 1,2-Dichloroethene	0.9	0.9
	Chloroform	3.7	40.0
	1,2-Dichloroethane	0.2	0.2
	1,1,1-Trichloroethane	0.30	6.5
	Trichloroethene	2.4	190
Middle	1,1-Dichloroethene	0.10	3.8
	1,1-Dichloroethane	0.38	2.6
	Total 1,2-Dichloroethene	0.89	34
	Chloroform	0.10	22
	1,2-Dichloroethane	0.15	2.7
	1,1,1-Trichloroethane	2.6	2.6
	Carbon tetrachloride	5.1	27
	Trichloroethene	0.50	195
Deep	There are no wells located in this zone		

<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE



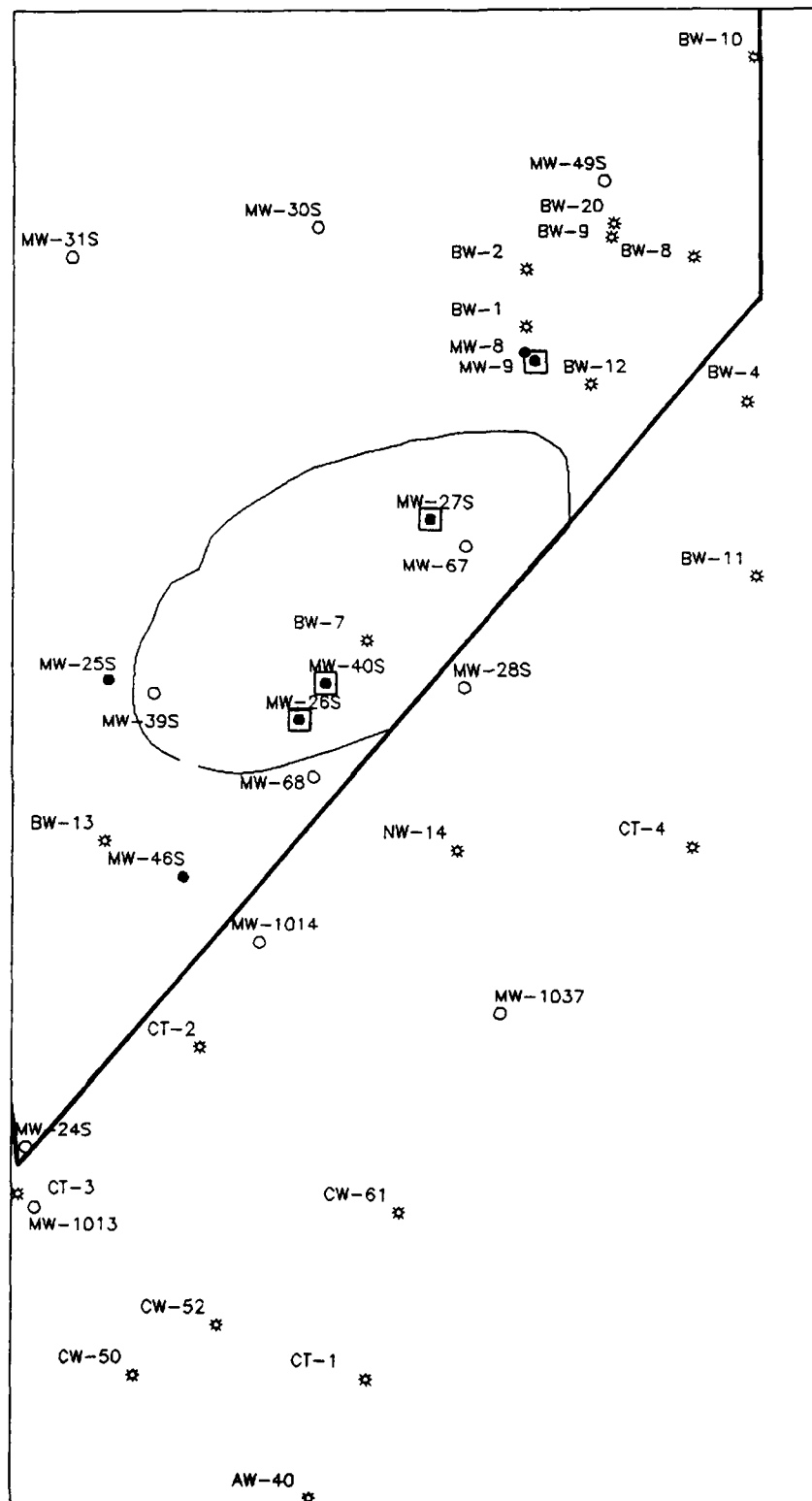
TABLE 3-5. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES <sup>a</sup>  
IN MONITORING WELLS LOCATED IN THE SOUTHEAST AREA  
FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/l.			
Shallow	No Key Analytes were detected in this zone		
Middle	1,1-Dichloroethene	6.5	6.5
	1,1-Dichloroethane	0.17	0.19
	1,1,1-Trichloroethane	2.5	2.5
	Trichloroethene	1.4	8.9
Deep	1,1-Dichloroethene	0.75	0.75

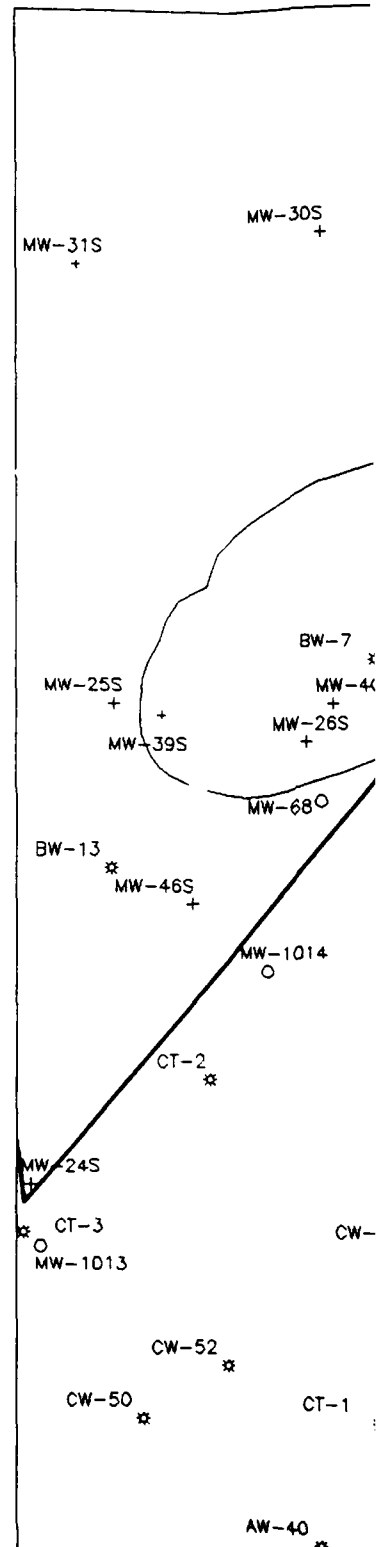
<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

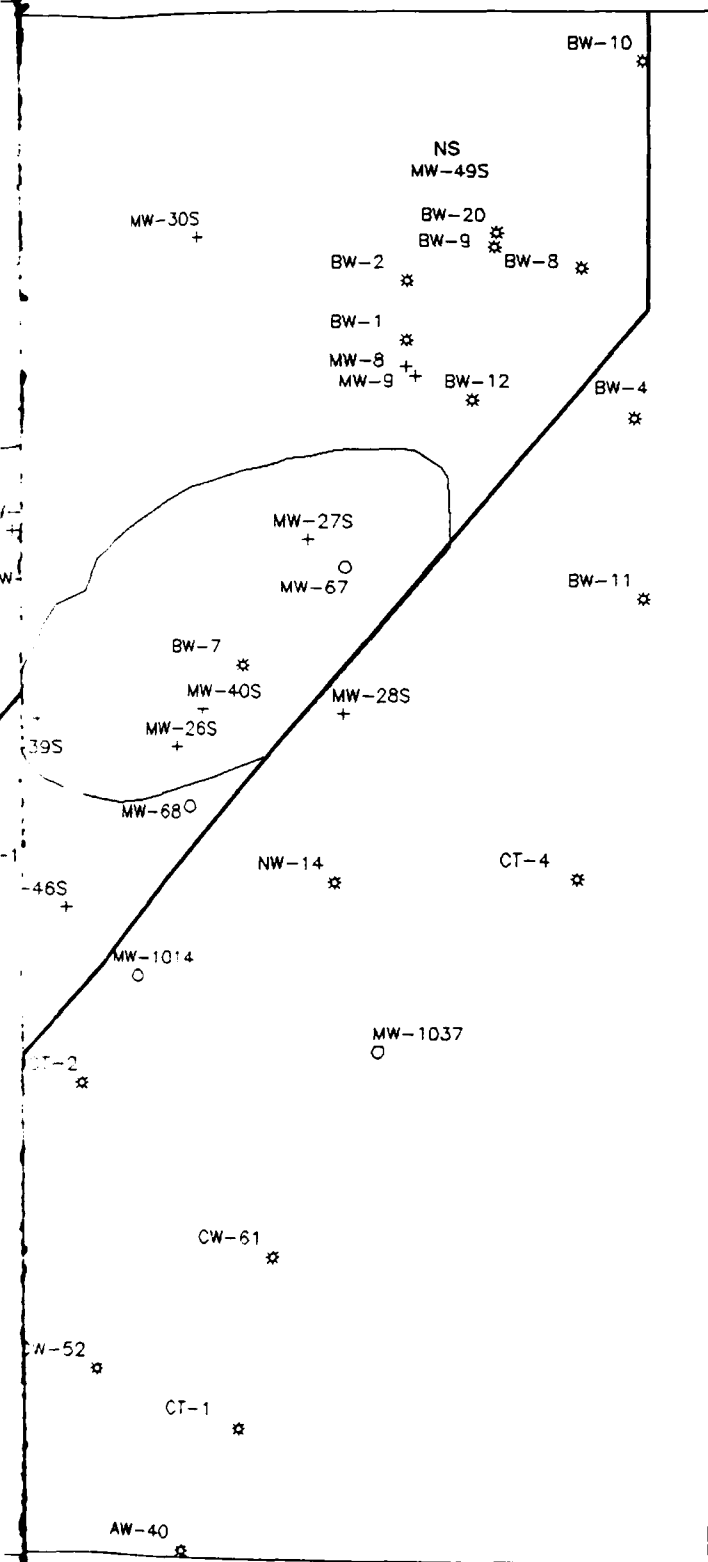
# HISTORICAL OCCURRENCE OF TCE IN AREA A / SE SHALLOW MONITORING WELLS



## MOST RECENT C IN AREA A / SE SHAL (OCT)



**MOST RECENT OCCURRENCE OF TCE  
AREA A / SE SHALLOW MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-6.  
Historical & Present  
Occurrence of TCE in  
Shallow Zone Monitoring Wells,  
Area A & the Southeast Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

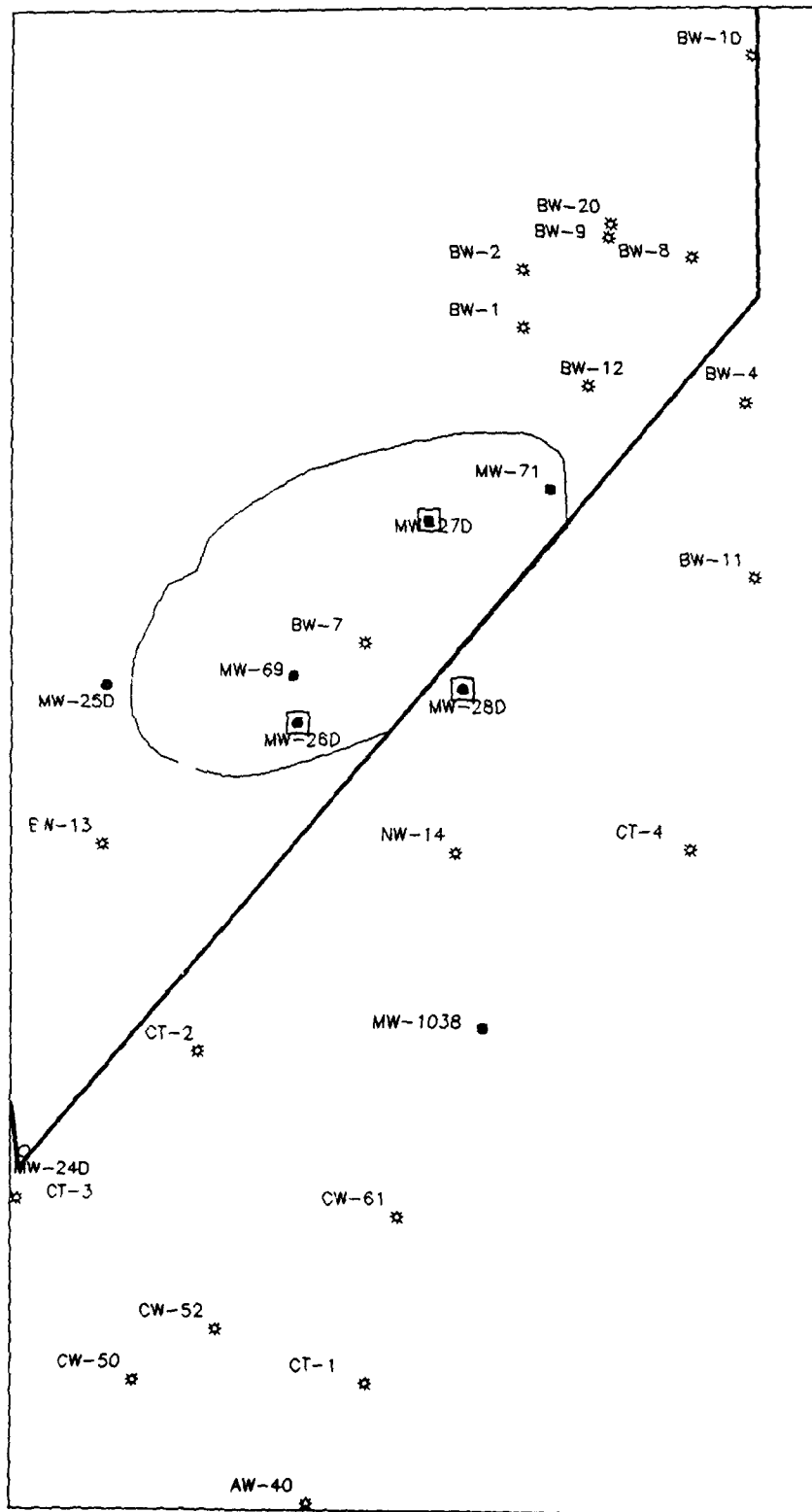
- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



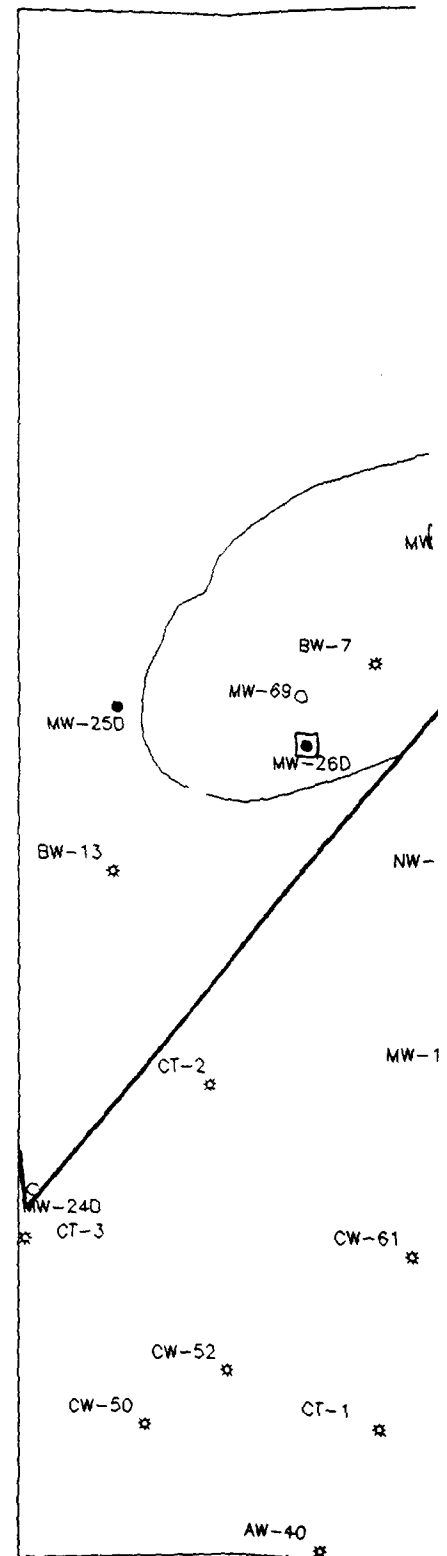
0 750 1500  
SCALE IN FEET

**RADIAN  
CORPORATION**

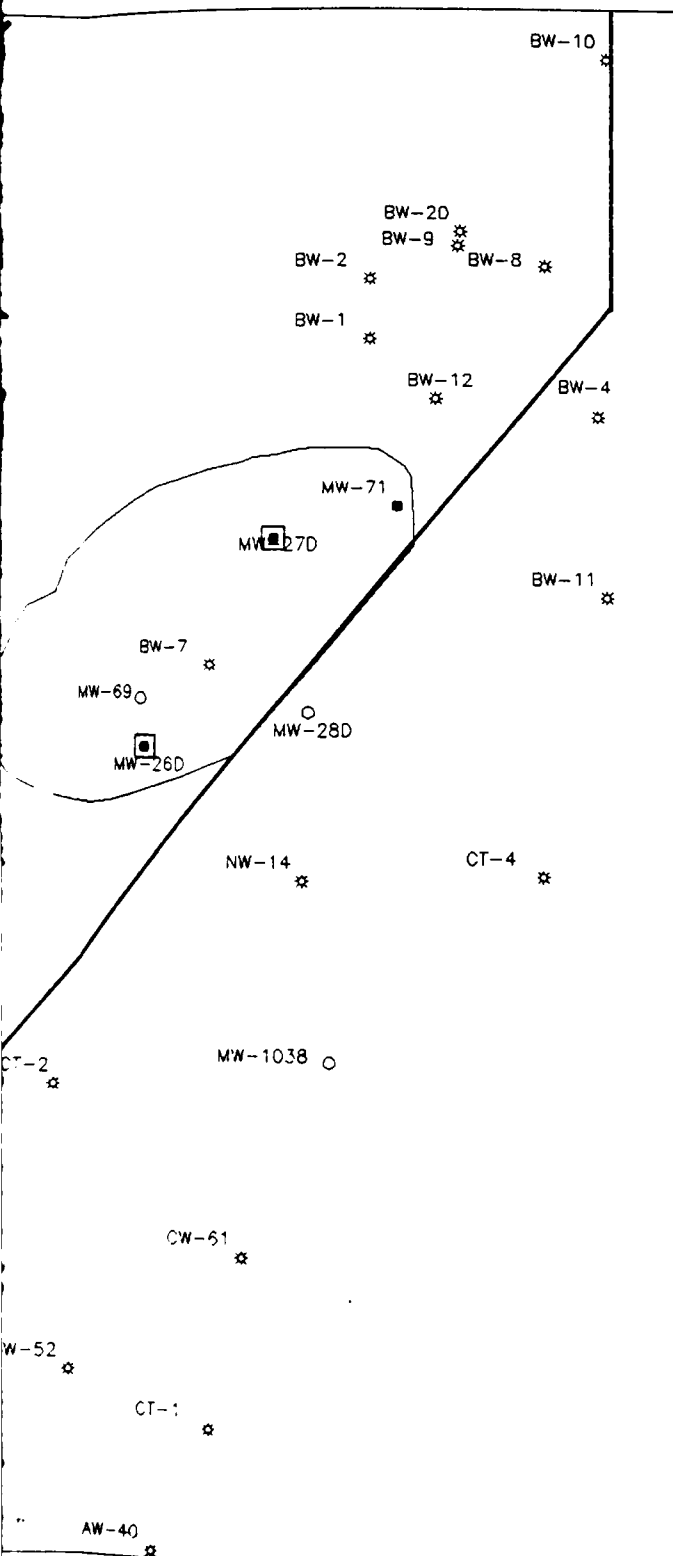
# HISTORICAL OCCURRENCE OF TCE IN AREA A / SE MIDDLE MONITORING WELLS



# MOST RECENT OC IN AREA A / SE MIDDLE (OCTOB



**MOST RECENT OCCURRENCE OF TCE  
IN AREA A / SE MIDDLE MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-7.  
Historical & Present  
Occurrence of TCE in  
Middle Zone Monitoring Wells,  
Area A & the Southeast Area.**

**LEGEND:**

— McClellan AFB Boundary

○ Boundaries of Past Disposal /  
Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

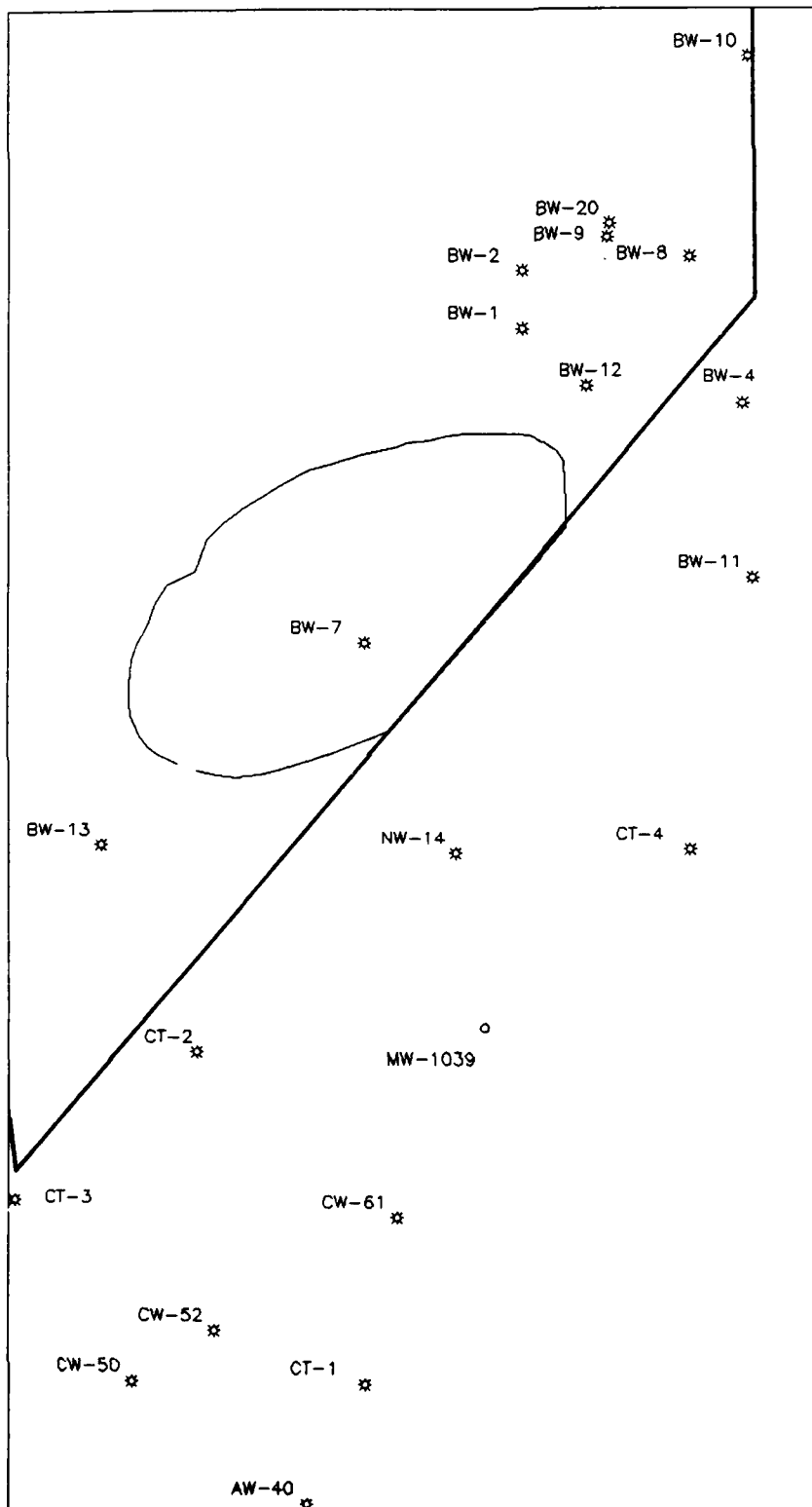
- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District  
Water Supply Well
- RW Rio Linda Water District  
Water Supply Well
- AW Arcade Water District  
Water Supply Well
- CT CalTrans Irrigation Well



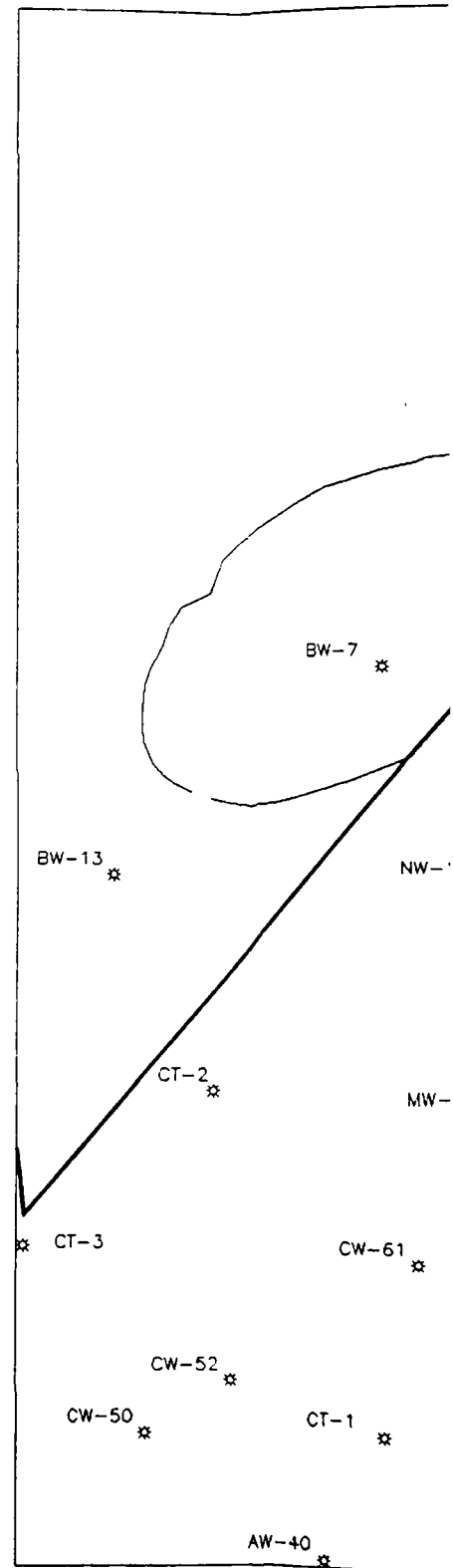
0 750 1500  
SCALE IN FEET

**RADIAN  
CORPORATION**

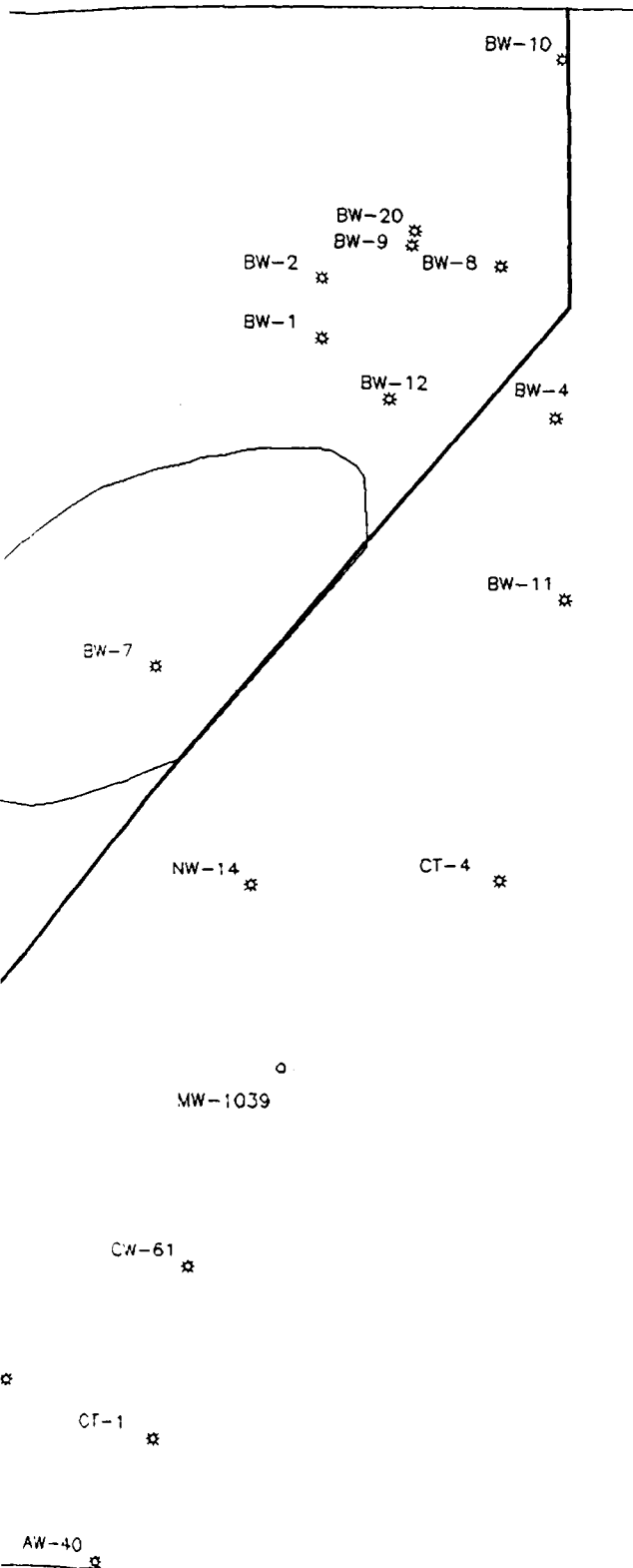
**HISTORICAL OCCURRENCE OF TCE  
IN AREA A / SE DEEP "A" MONITORING WELLS**



**MOST RECENT OCCURRENCE  
IN AREA A / SE DEEP "A"  
(OCTOBER 1999)**



**MOST RECENT OCCURRENCE OF TCE  
IN AREA A / SE DEEP "A" MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-8.  
Historical & Present  
Occurrence of TCE in  
Deep "A" Zone Monitoring Wells,  
Area A & the Southeast Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◐ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 750 1500  
SCALE IN FEET

**RADIAN  
CORPORATION**

3.1.4 Trend Analysis

The only well in Area A which has been sampled enough times to be analyzed for long term trends is MW-27D. No statistically verifiable trends have been found in this well. As analytical data is collected from other monitoring wells in this area, they will be evaluated for concentration trends.

3.1.5 Discussion

Based on the available analytical and hydrologic data, the following observations and interpretations can be presented:

- Contaminants may be migrating southwest from Area A towards Area B as a result of pumping by BW-13, BW-18 and off-base water supply wells CW-131, CW-138, CW-150 and CW-132;
- Groundwater flow patterns appear to have changed as a result of increased pumping by NW-14 and the direction of groundwater flow may now be to the south from Area A; and
- Contaminants have been detected in shallow and middle zone monitoring wells, but there are no monitoring wells screened in the deep zone in Area A to determine the vertical extent of contamination.

As new monitoring wells are installed and additional hydrologic and analytical data are collected, these interpretations will be reviewed and updated to reflect more complete information.

Three single-well aquifer tests using shallow and middle zone monitoring wells have been conducted in Area A by McLaren Engineering and Radian Corporation (McLaren, April 1986; Radian, March 1987). From these tests, values of hydraulic conductivity are estimated to range from 120 to 245 gallons/day/ft<sup>2</sup>.



Horizontal hydraulic gradients measured from potentiometric maps for the shallow and middle zone range from 0.003 to 0.005 feet per foot. Effective porosity values have not been determined from field samples but are estimated to be approximately 20 percent based on the types of geologic materials encountered beneath Area A (Fetter, 1980). To estimate groundwater flow rates, these values were used in Darcy's equation  $q = k i/n$  where:

q is the specific discharge;  
K is hydraulic conductivity;  
i is the hydraulic gradient; and  
n is the effective porosity

Groundwater flow beneath Area A, Adjacent On-Base Areas, and the Southeast Area is estimated to range from 0.3 to 0.8 feet per day. These are preliminary estimates of groundwater flow rates based on the results of three single-well aquifer tests and limited water level information. Because the pumping rates for BW-10, BW-18, and other off-base water supply wells may change, hydraulic gradients and groundwater flow directions may also change. A re-evaluation of the data will be conducted in the future.

The results of analyses for wells sampled in Area A and Adjacent On-Base Areas since 1985 show that carbon tetrachloride is fairly unique to Area A. Therefore, it is a good indicator of contaminant migration within and away from Area A. Carbon tetrachloride has consistently been detected in a middle zone monitoring well, MW-27D, located in the northeast portion of Area A. Carbon tetrachloride also has been consistently detected in samples collected from BW-13 located southwest of Area A. At the present there are no known potential source areas in the vicinity of BW-13 from which carbon tetrachloride may have been discharged. Because there are no known sources near BW-13, but carbon tetrachloride has been detected in samples from this well, and because groundwater appears to flow to the southwest from Area A, contaminated groundwater may be migrating from Area A southwest toward BW-13.

Due to the apparent southwesterly groundwater flow, contaminants may also be migrating towards BW-18 in Area B. In October 1987, regular pumping of BW-13 was discontinued because levels of carbon tetrachloride were found to exceed drinking water standards. As a result of the pumping of BW-18 and other off-base water supply wells (CW-132, CW-150, and CW-155), there appears to be a southwesterly groundwater flow beneath Area A. This may be causing migration of contaminants from Area A toward Area B.

In October 1988, NWD increased the pumping rate of NW-14 from 400 to 1,200 gpm. This well is located approximately 1200 feet south of Area A and is screened from 200 to 623 feet below the surface. Prior to October 1988, NW-14 operated only during peak demand summer months at an approximate rate of 400 gpm. As a result of the increased pumping rate and deep screen interval, contaminants from Area A may begin to migrate in groundwater off base toward NW-14. Contaminant migration may also occur vertically as well as horizontally.

In summary, there is evidence of contamination in Area A based on the historical occurrence of contaminants in monitoring wells that are now dry, and based on existing contamination detected over the past year. The effect of both on- and off-base pumping on local groundwater flow directions cannot be determined from the potentiometric maps generated for data collected from the existing monitoring wells. Additional hydrologic and analytical data will be obtained when additional monitoring wells are installed under the HGA Work Plan (Radian, October 1988). This will help to better define groundwater flow directions and the extent of groundwater contamination.

### 3.2 Area B and Adjacent On-Base Areas and the Southwest Area

Area B is located in the southwest portion of the base (Figure 3-1). The boundary of Area B was determined by CH2M Hill based on historic waste use and disposal activities identified during record searches conducted in 1981. Since 1981, other potential release locations have been identified beyond the

boundaries established by CH2M Hill. Potential release locations located outside of the Area B boundary are referred to as "Adjacent On-Base Areas." The Southwest Area is the area immediately off base, southwest of Area B. This Area is discussed together with Area B because of the potential influence of the base water supply well BW-18 on groundwater flow directions in the Southwest Area.

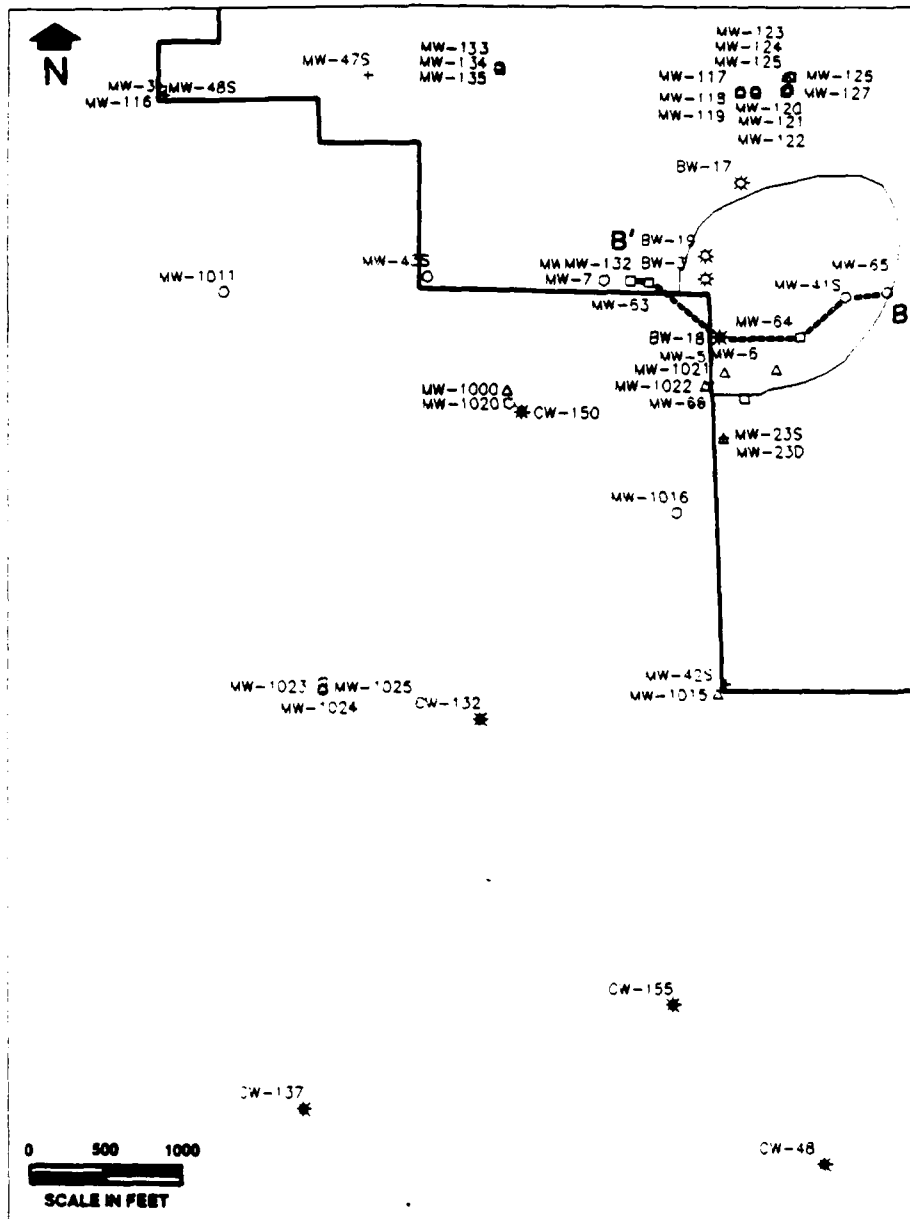
Past industrial operations in Area B include the storage, use, and/or disposal of solvents, polychlorinated biphenols, heavy metals and plating chemicals, oil and grease, refuse, scrap metals, and low-level radioactive wastes (McLaren, 1985).

Groundwater contamination was detected in Area B in 1979 following analysis of groundwater samples collected from base water supply well BW-18. Subsequent sampling of off-base residential wells and municipal water supply wells located in the Southwest Area identified the presence of TCE in City of Sacramento water supply well CW-150 and one residential well. A wellhead treatment system at BW-18 has been in place since 1985 to remove organic chemicals such as TCE from the water. Sampling and analysis of BW-18 is currently being conducted at McClellan AFB to ensure contaminants are effectively removed by the treatment system.

There are 30 monitoring wells and 5 abandoned wells located in Area B and Adjacent On-Base Areas. There are 10 monitoring wells located in the Southwest Area (Figure 3-9). Of these, 18 are currently included in the McClellan AFB groundwater monitoring network and 12 are non-network wells (Table 3-6 and 3-7).

### 3.2.1 Potential Sources of Groundwater Contamination

There are 19 UPRLs, 3 PSPRLs, and 2 Confirmed Sites located in Area B and Adjacent On-Base Areas (Figure 3-10). The two confirmed sites are an abandoned plating shop (Building 666) that has been disassembled, and an abandoned industrial waste treatment plant. The types of PRLs in Area B and



**LEGEND:**

— McClellan AFB Boundary	<b>Monitoring Wells:</b>	<b>Other Wells:</b>
○ Boundaries of Past Disposal / Storage Sites	○ Shallow Zone	⊗ Extraction Well
----- Cross Section Locations	△ Middle Zone	* Active Water Supply Well
	□ Deep "A" or "B" Zone	⊙ Inactive Water Supply Well
	+ Dry Well	

**Figure 3-9. Wells Located in Area B and Adjacent On-Base Areas, and the Southwest Area.**

TABLE 3-6. MONITORING WELLS LOCATED IN AREA B AND ADJACENT ON-BASE AREAS

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells <sup>b</sup>	Abandoned (Grouted)	Total Number of Wells
Shallow	MW-41S <sup>a</sup> MW-117 <sup>a</sup> MW-120 <sup>a</sup>	MW-7 <sup>a</sup> MW-65 <sup>a</sup> MW-123 <sup>a</sup>	None	MW-23S MW-42S MW-43S MW-47S MW-48S	11
Middle	MW-23D MW-121	MW-5 <sup>a</sup> MW-6 <sup>a</sup> MW-118 <sup>a</sup> MW-124 <sup>a</sup>	None		6
Deep "A"	MW-63 <sup>a</sup> MW-122	MW-64 MW-66 MW-119 MW-125 MW-127 <sup>a</sup>	None		7
Deep "B"	MW-132 <sup>a</sup>		None		1
Total Number of Wells	8	12	0	5	25

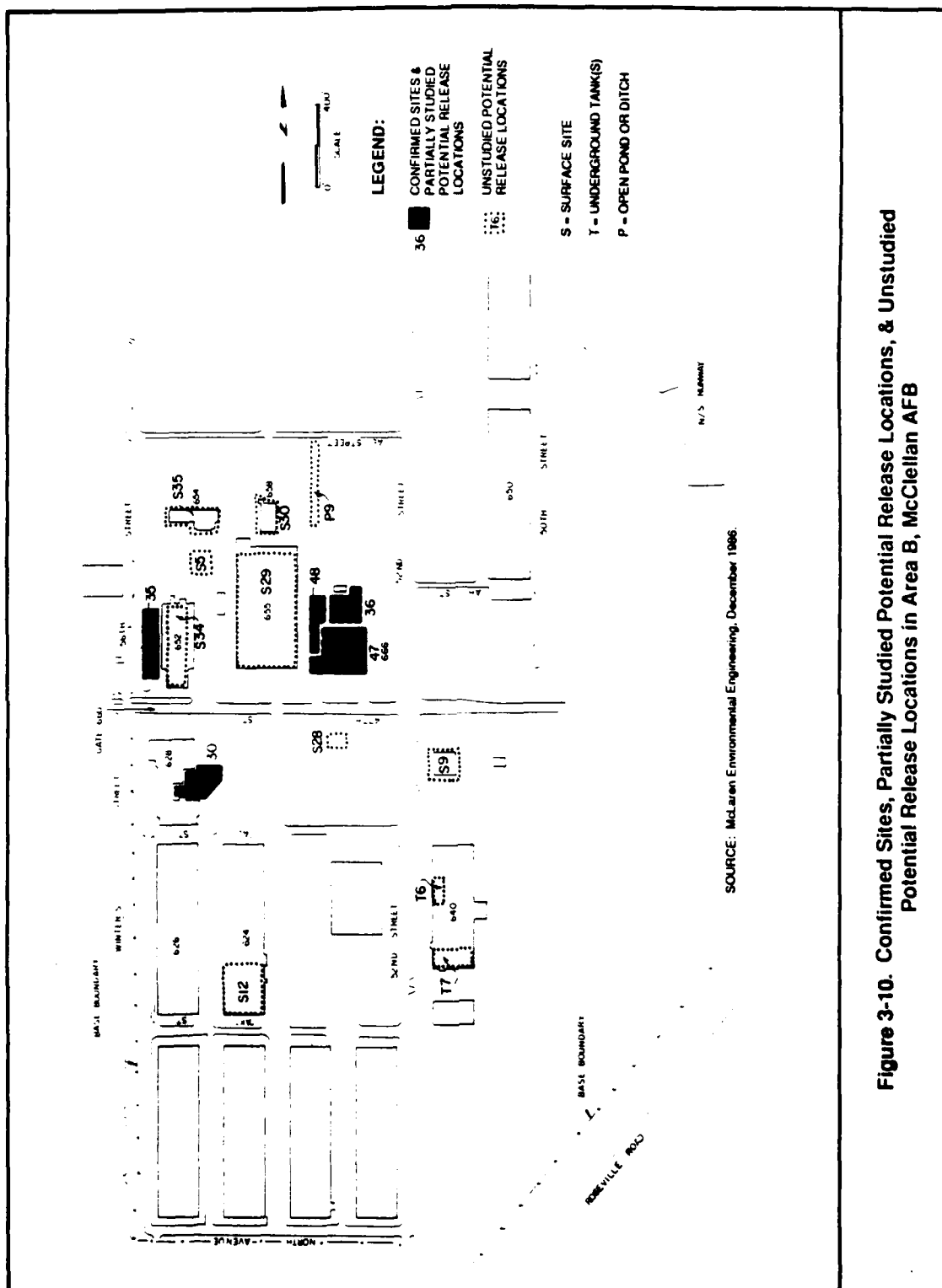
<sup>a</sup> Samples collected from this well have contained TCE.

<sup>b</sup> Under consideration for abandonment.

TABLE 3-7. MONITORING WELLS LOCATED IN THE SOUTHWEST AREA

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells	Total Number of Wells
Shallow	MW-1011 MW-1016 MW-1020 <sup>a</sup> MW-1021 <sup>a</sup> MW-1023	None	None	5
Middle	MW-1000 <sup>a</sup> MW-1015 MW-1022 <sup>a</sup> MW-1024	None	None	4
Deep "A"	MW-1025	None	None	1
Total Number of Wells	10	0	0	10

<sup>a</sup> Samples from this well have contained TCE.



**Figure 3-10. Confirmed Sites, Partially Studied Potential Release Locations, & Unstudied Potential Release Locations in Area B, McClellan AFB**

Adjacent On-Base Areas and the chemicals that are suspected or confirmed to have been used, stored, and/or disposed at each area are included in Appendix A-4. Descriptions presented in the appendix are based on information provided by (McLaren, (1986) CH2M Hill, (1981) and the McClellan AFB Office of Environmental Management.

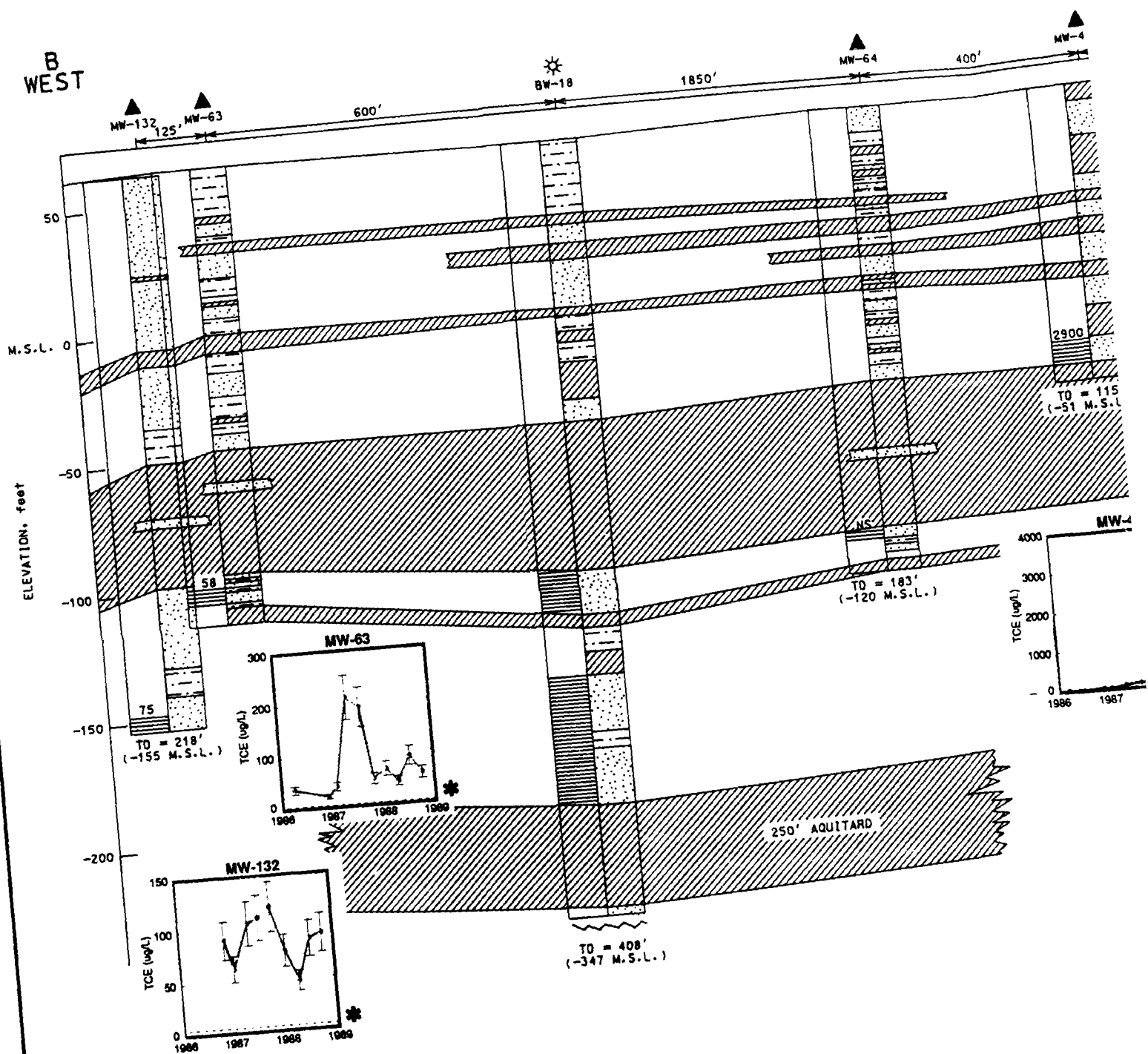
### 3.2.2 Hydrogeologic Data

Soils in the vicinity of Area B are designated as Urban Land (covered by concrete, asphalt, or buildings). This is typical for most of the base where industrial activities have occurred. The types of soils that may be present beneath Area B were extrapolated from the types of soils in adjacent open areas of Area B and the Southwest Area. Soils in the Southwest Area and immediately west of Area B are designated as San Joaquin-Urban Land Complex or Xeralfic Arents-Urban Land Complex respectively. Soils of the San Joaquin Complex consist of sandy loams, silty loams and clays underlain by a strongly indurated silica cemented hardpan. The Xeralfic Arents Complex consists of sandy loams, sandy clay loams, clay loams, loamy sands, and clays and are underlain by a weakly cemented hardpan. Permeability of the Xeralfic Arents and San Joaquin Complex is moderate to very slow (USDA, 1986).

A west to east cross section depicting subsurface deposits beneath a portion of Area B and Adjacent On-Base Areas is shown in Figure 3-11. The surface trace of the cross section is shown in Figure 3-9. As shown on the cross section, materials encountered beneath this area of the base and off-base in the Southwest Area consist of alternating deposits of sands, silts and clayey silts. In addition, there appears to be a fine-grained zone of clayey silts at a depth of -50 to -100 feet msl.

There are thirty monitoring wells located in Area B and Adjacent On-Base Areas and in the Southwest Area from which water levels can be measured. Water levels are measured every three months in 19 of these wells (18 network wells and one non-network well screened in the deep "A" monitoring zone [MW-66]). Water levels are not measured in the remaining eleven non-





B'  
EAST

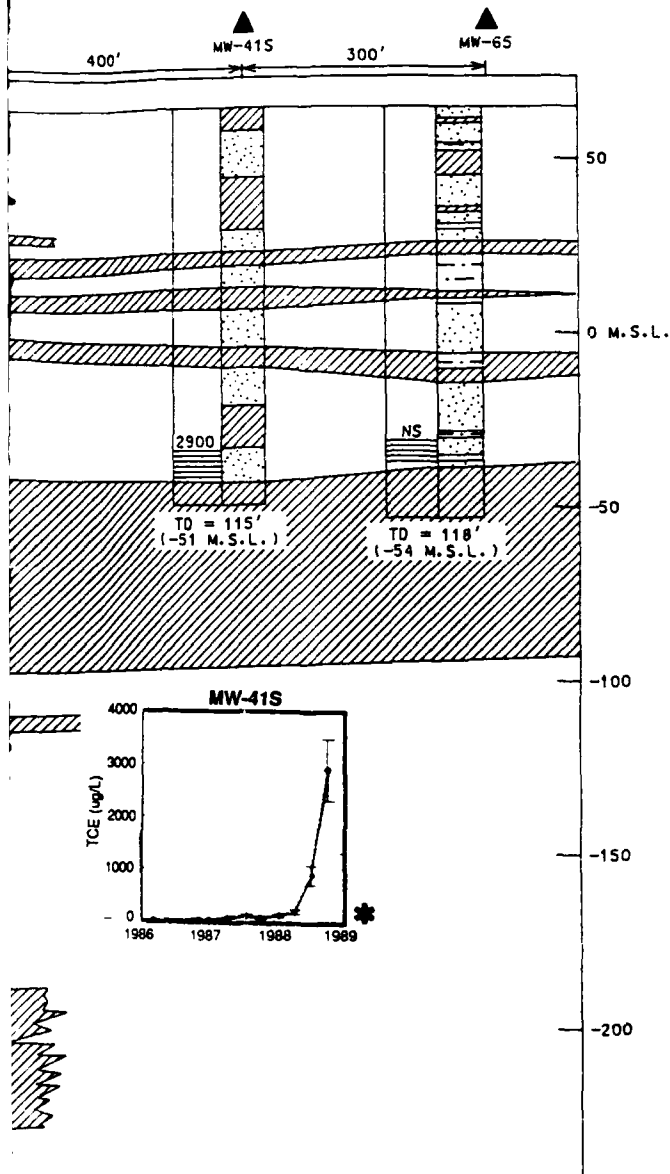


Figure 3-11.  
Subsurface Profile, Area B

## LEGEND

- ▲ MONITORING WELL (MW)
- EXTRACTION WELL (EW)
- ⊗ BASE PRODUCTION WELL (BW)
- M.S.L. MEAN SEA LEVEL
- TD TOTAL DEPTH

- SAND
- SILT
- CLAYEY SILT
- NO DATA
- SCREEN INTERVAL

## SCALE

HS: 1" = 250'  
VS: 1" = 54'  
VE = 4.6

NOTE: TCE CONCENTRATIONS ARE REPORTED NEXT TO SCREEN INTERVALS IN ug/l FOR OCTOBER THROUGH DECEMBER, 1988 SAMPLING PERIOD. NO = NOT DETECTED

GENERATED BY: *Jim Thompson* 7-20-89  
PROJECT REVIEW: *Mark McLean* 7-21-89  
PEER REVIEW: *John P. Thompson* 7-21-89

**RADIAN**  
CORPORATION

network monitoring wells because the existing network wells were determined in previous studies conducted by Radian (October, 1987) to be appropriately spaced to provide adequate information or because wells contain an extended screen interval and therefore are not suitable for water level measurements of one monitoring zone.

The direction of groundwater flow in Area B and Adjacent On-Base Areas and in the Southwest Area is to the southwest except in the immediate vicinity of BW-18 based on the interpretations of the potentiometric surface maps (Plates 2, 3, and 4) produced from water levels measured in 1988. A cone of depression is apparent in Area B in the middle monitoring zone (Plate 3) as a result of pumping of BW-18, but is not evident on the maps for the shallow or deep monitoring zones. BW-18 is screened at four depths, from -108 to -124 ft msl, from -149 to -199 ft msl, from -243 to -288 ft msl and from -317 to -326 ft msl. The maps (Plate 2) for the shallow monitoring zone shows some influence of BW-18 pumping on the contours. There are four deep "A" zone monitoring wells located in Area B and the Southwest Area that can be used to define the effect of pumping on local groundwater flow. The potentiometric maps for the deep monitoring zone in the areas reflect the lack of hydrologic control.

Off-base water supply wells located in the Southwest Area operated by the City of Sacramento (CW-150, CW-132, and CW-131) also influence the direction of groundwater flow. However, their effect cannot be accurately determined because existing monitoring wells are not located near these off-base water supply wells. City Well-150 is screened from 144 to 372 ft BGS (approximately -90 to -320 feet msl), CW-132 is screened from 192 to 234 ft BGS (approximately -140 to -180 feet msl) and CW-131 is screened from 150 to 280 ft BGS (approximately -100 to -230 feet msl). To aid in further evaluations of the groundwater flow regime in this area, Radian has proposed the installation of several monitoring well clusters (consisting of shallow, middle, and deep "A" and deep "B" zone monitoring wells) within, northeast, and southeast of Area B as part of the Area B Operable Unit Remedial Investigation (Radian, February 1989). Some of these monitoring wells are

scheduled to be constructed in March 1989. Measurement of water levels in these wells will better define the direction of groundwater flow in Area B and the Southwest Area.

There have not been any significant changes in groundwater flow directions in Area B and Adjacent On-Base Areas and in the Southwest Area during 1988. Based on water-level measurements, however, there have been changes in horizontal and vertical hydraulic gradients. Table 3-8 shows the estimated horizontal and vertical hydraulic gradients, respectively, for water-level data collected in October 1987 and October 1988 in Area B and Adjacent On-Base Areas and in the Southwest Area. In general, horizontal hydraulic gradients have steepened in this area of the base during 1988 and are steepest near BW-18. Vertical hydraulic gradients show a downward potential for water movement.

### 3.2.3 Horizontal and Vertical Distribution of Contaminants

Thirty-one monitoring wells located in Area B and Adjacent On-Base Areas and in the Southwest Area have been sampled and analyzed by Radian since June of 1985. Samples collected from 16 of these wells have contained detectable concentrations of 10 key analytes. The minimum and maximum detected concentrations of key analytes from 1985 through 1988 are shown in Table 3-9 and 3-10.

Of the 10 key analytes, TCE is the most frequently detected. A comparison of the historical occurrence of TCE versus the most recent detection of TCE is shown in Figures 3-12, 3-13, 3-14, and 3-15. As shown in the figures, monitoring wells that have historically contained TCE continue to show detectable TCE concentrations except two wells. MW-1000 and MW-1020 are located approximately 1,000 feet west of Area B, and samples from these wells have contained low levels of TCE sporadically.

TABLE 3-8. GRADIENTS OF SELECTED WELL PAIRS IN AREA B AND THE SOUTHWEST AREA

Well Pair	Monitoring Zone	Vertical or Horizontal Distance (feet)	Head Difference (feet)	Gradients
4Q 85*				
Horizontal				
MW-23S/MW-42S	Shallow	1634	1.58	5.11 ft/mi
MW-23D/MW-66	Middle	294	2.65	47.52 ft/mi
Vertical				
MW-23S/MW-23D	Shallow/Middle	72		0.06 ft/ft
4Q87				
Horizontal				
MW-1016/MW-1021	Shallow	860	0.10	0.61 ft/mi
MW-1015/MW-23D	Middle	1696	4.08	12.70 ft/mi
Vertical				
MW-1021/MW-1022	Shallow/Middle	48	7.38	-0.15 ft/ft
MW-1020/MW-1000	Shallow/Middle	31	0.05	<0.01 ft/ft
MW-120/MW-121	Shallow/Middle	45	2.70	-0.06 ft/ft
4Q88				
Horizontal				
MW-1016/MW-1021	Shallow	860	0.12	0.74 ft/mi
MW-1015/MW-23D	Middle	1695	4.20	13.10 ft/mi
Vertical				
MW-1020/MW-1000	Shallow/Middle	31	0.12	<0.01 ft/ft
MW-120/MW-121	Shallow/Middle	45	3.15	-0.07 ft/ft
MW-121/MW-122	Middle/Deep	58	2.30	-0.04 ft/ft

\* From McClaren, February 1986.

Note: negative (-) gradient indicates downward flow potential.

TABLE 3-9. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES <sup>a</sup>  
 IN MONITORING WELLS LOCATED IN AREA B AND ADJACENT ON-BASE AREAS  
 FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/L			
Shallow	1,1-Dichloroethane	0.21	0.21
	Total 1,2-Dichloroethene	4.9	25
	Chloroform	0.18	5.6
	1,2-Dichloroethane	0.14	2.1
	1,1,1-Trichloroethane	2.3	2.3
	Carbon tetrachloride	0.25	0.71
	Trichloroethene	2.7	2900
	Tetrachloroethene	0.18	370
Middle	Chloroform	0.95	0.95
	1,1,1-Trichloroethane	0.30	0.5
	Trichloroethene	0.2	86.2
Deep	1,1-Dichloroethane	0.24	0.76
	1,1-Dichloroethane	0.15	0.15
	Total 1,2-Dichloroethene	0.64	68
	Chloroform	0.13	1.0
	1,2-Dichloroethane	0.30	0.90
	Trichloroethene	1.3	210
	Tetrachloroethene	0.15	0.15

<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

NE - not established.  
 All unit are ug/L.

TABLE 3-10. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES <sup>a</sup>  
 IN MONITORING WELLS LOCATED IN THE SOUTHWEST AREA  
 FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/L			
Shallow	Total 1,2-Dichloroethene	0.10	12
	Chloroform	0.10	0.33
	1,1,1-Trichloroethane	0.25	0.78
	Carbon tetrachloride	0.24	0.24
	Trichloroethene	0.30	57
	Tetrachloroethene	0.16	5.6
Middle	Total 1,2-Dichloroethene	0.16	25
	Chloroform	0.10	0.49
	1,1,1-Trichloroethane	0.83	0.83
	Trichloroethene	0.30	21
	Tetrachloroethene	0.1	1.0
Deep	No Key Analytes were detected in this zone		

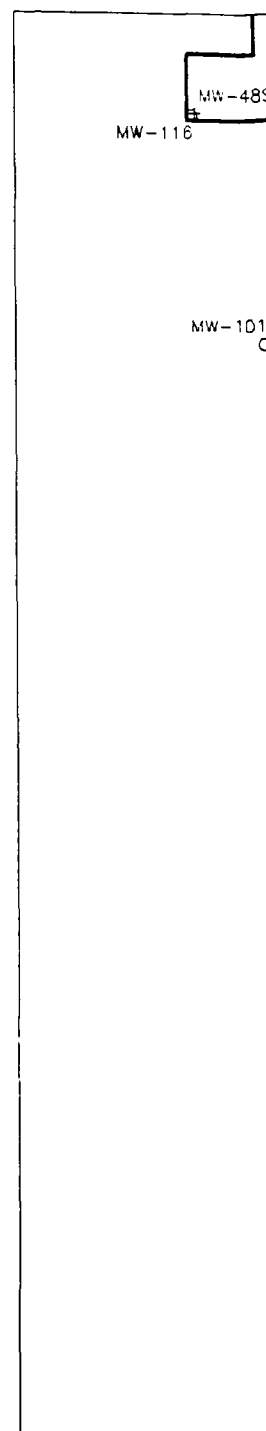
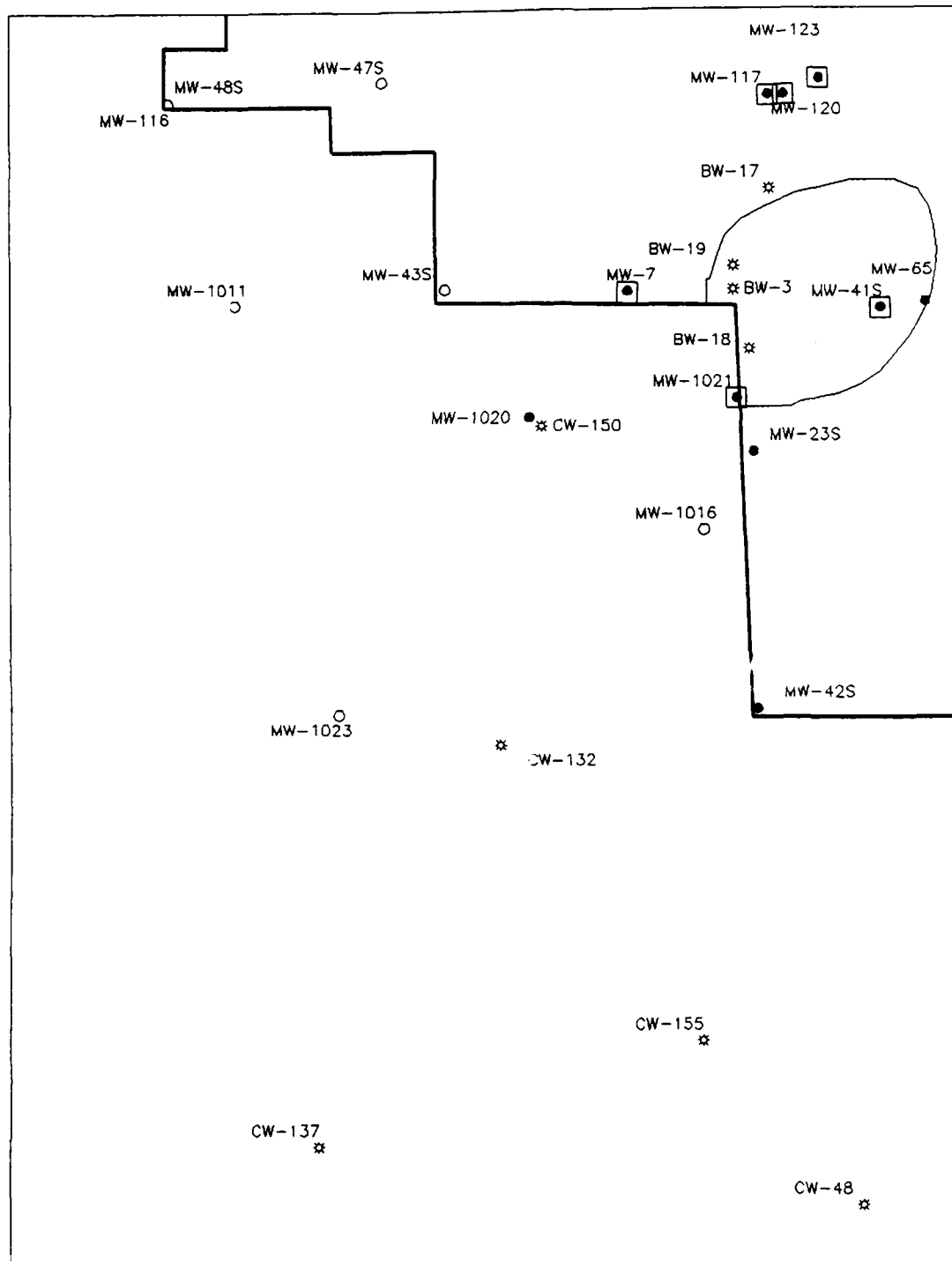
<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

NE - not established.  
 All unit are ug/L.

# HISTORICAL OCCURRENCE OF TCE IN AREA B / SW SHALLOW MONITORING WELLS

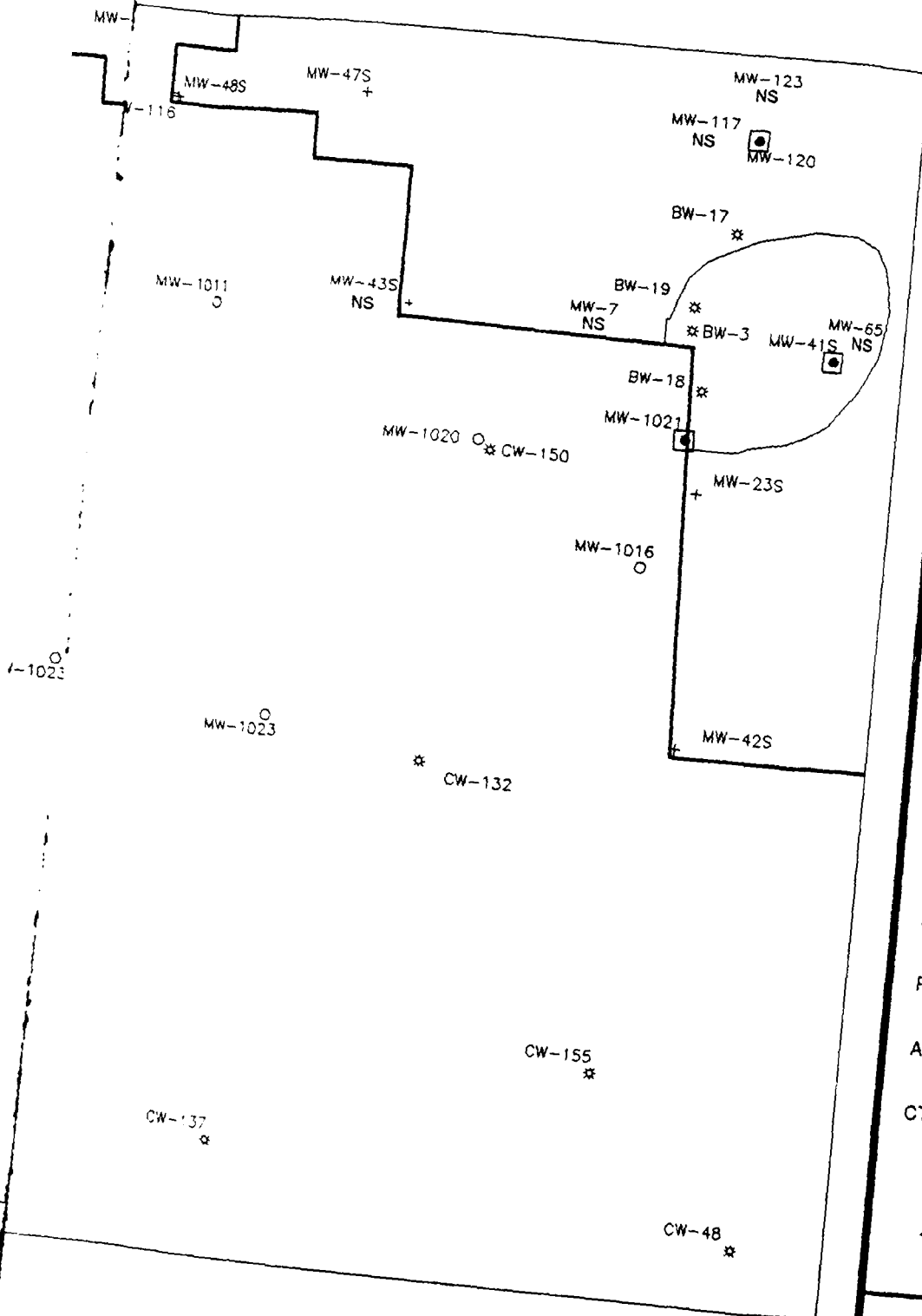
IN





POST  
A B /

**MOST RECENT OCCURRENCE OF TCE  
IN AREA B / SW SHALLOW MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-12.  
Historical & Present  
Occurrence of TCE in  
Shallow Zone Monitoring Wells,  
Area B & the Southwest Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◼ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well

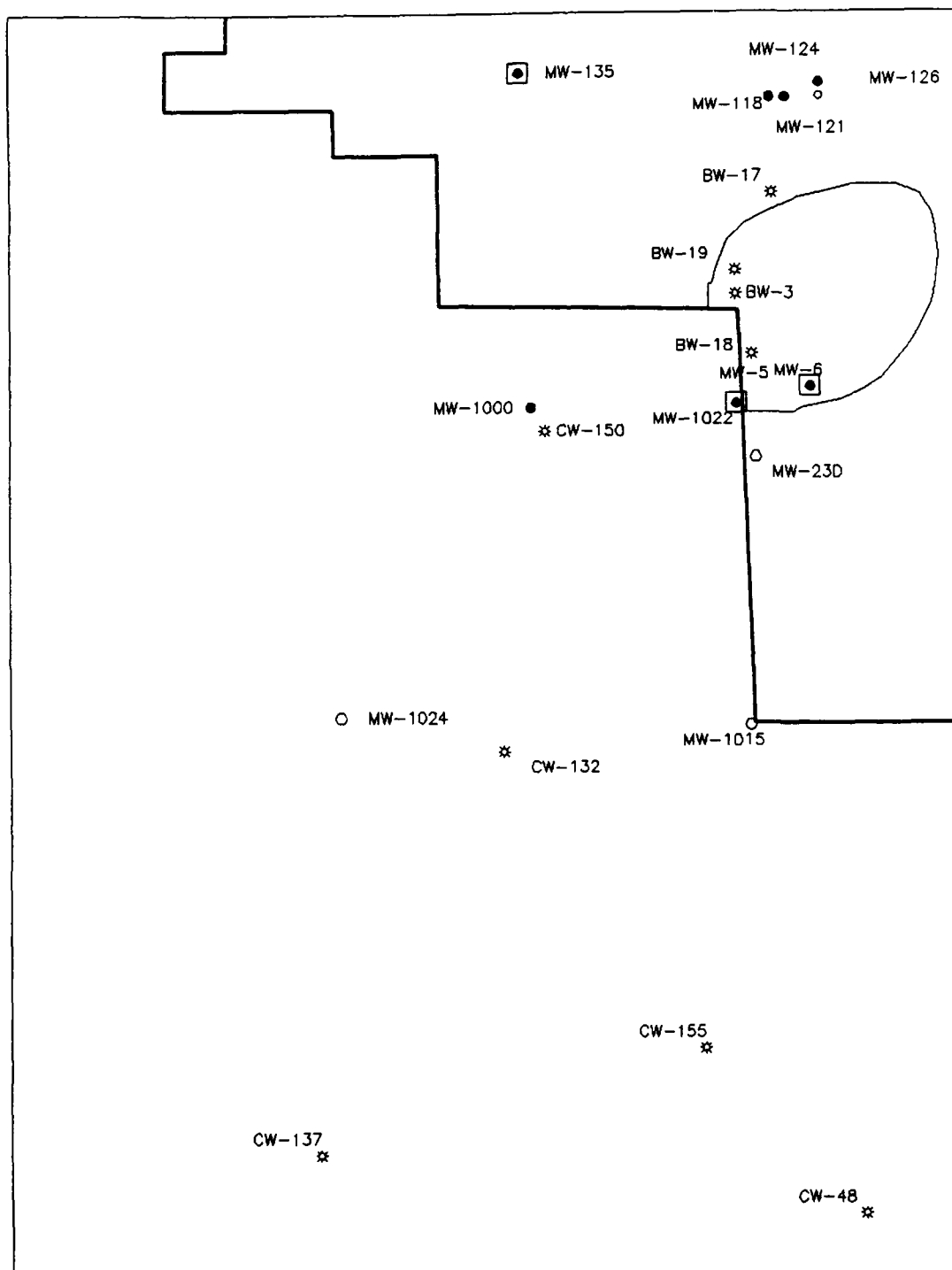


0 500 1000  
SCALE IN FEET

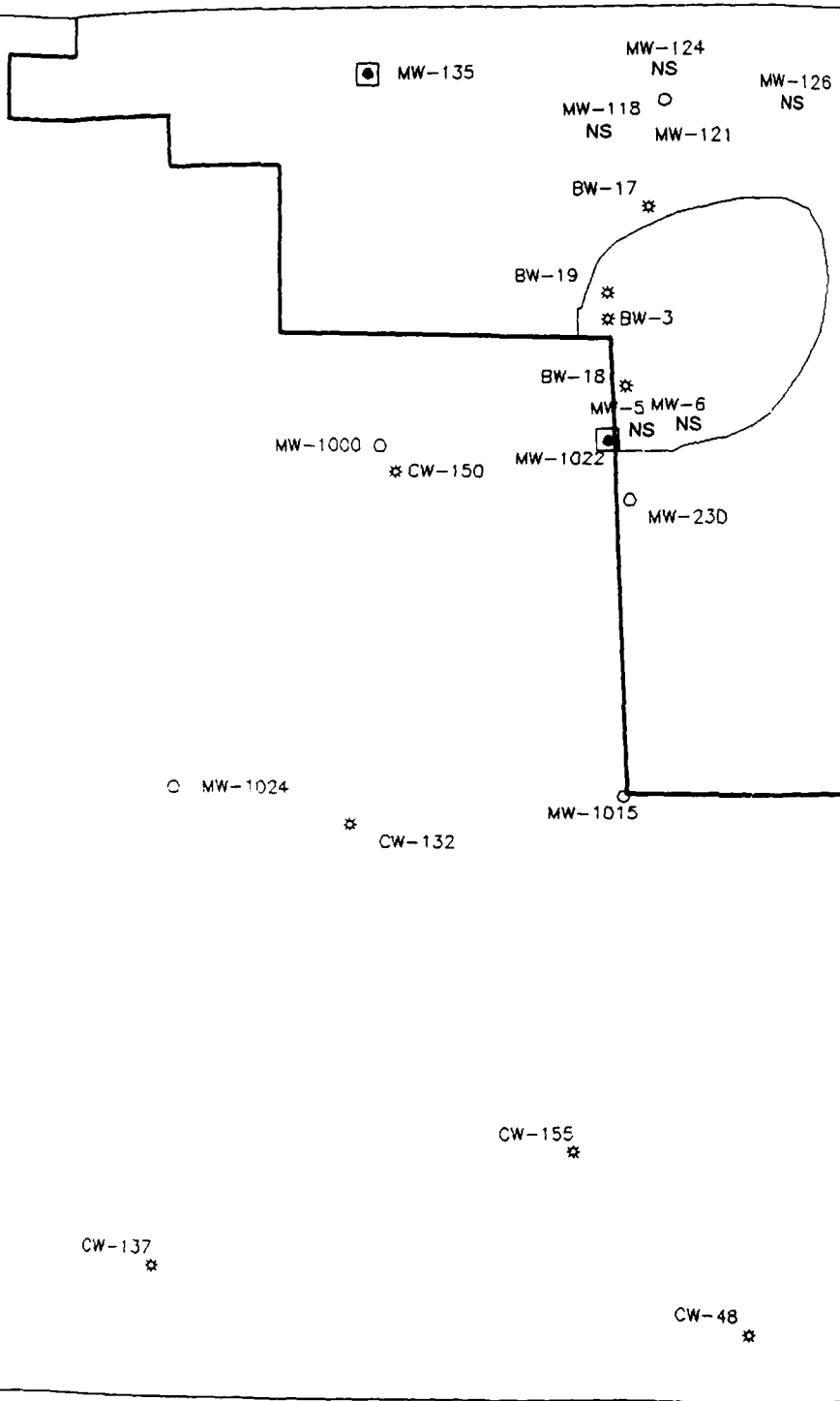
**RADIAN  
CORPORATION**

# HISTORICAL OCCURENCE OF TCE IN AREA B / SW MIDDLE MONITORING WELLS

IN A



**MOST RECENT OCCURRENCE OF TCE  
IN AREA B / SW MIDDLE MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-13.  
Historical & Present  
Occurrence of TCE in  
Middle Zone Monitoring Wells,  
Area B & the Southwest Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◐ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well

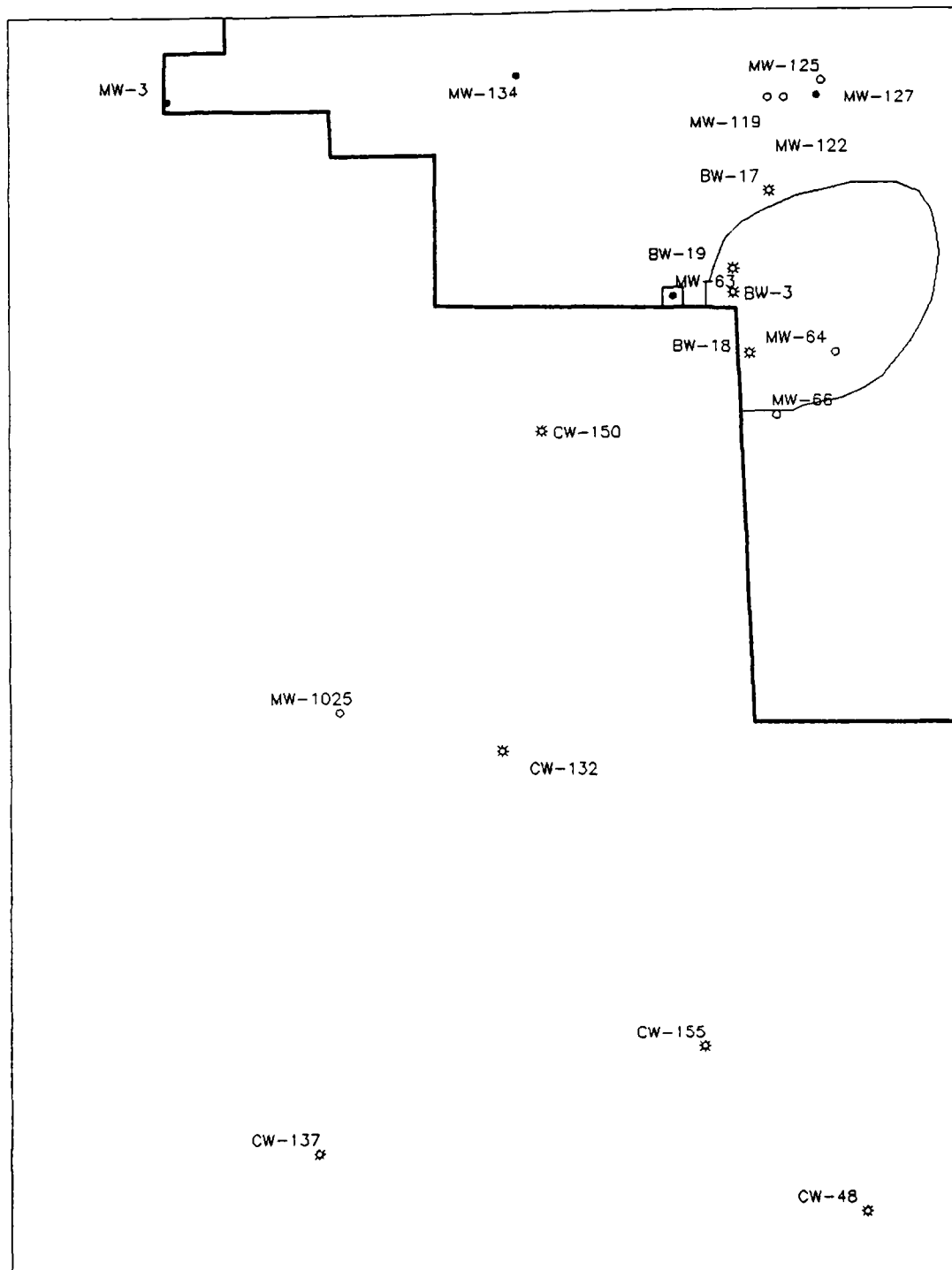


0 500 1000  
SCALE IN FEET

**RADIAN  
CORPORATION**

# HISTORICAL OCCURRENCE OF TCE IN AREA B / SW DEEP "A" MONITORING WELLS

MC  
IN ARE



**MOST RECENT OCCURRENCE OF TCE  
IN AREA B / SW DEEP "A" MONITORING WELLS  
(OCTOBER 1988)**

**Figure 3-14.  
Historical & Present  
Occurrence of TCE in  
Deep "A" Zone Monitoring Wells,  
Area B & the Southwest Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

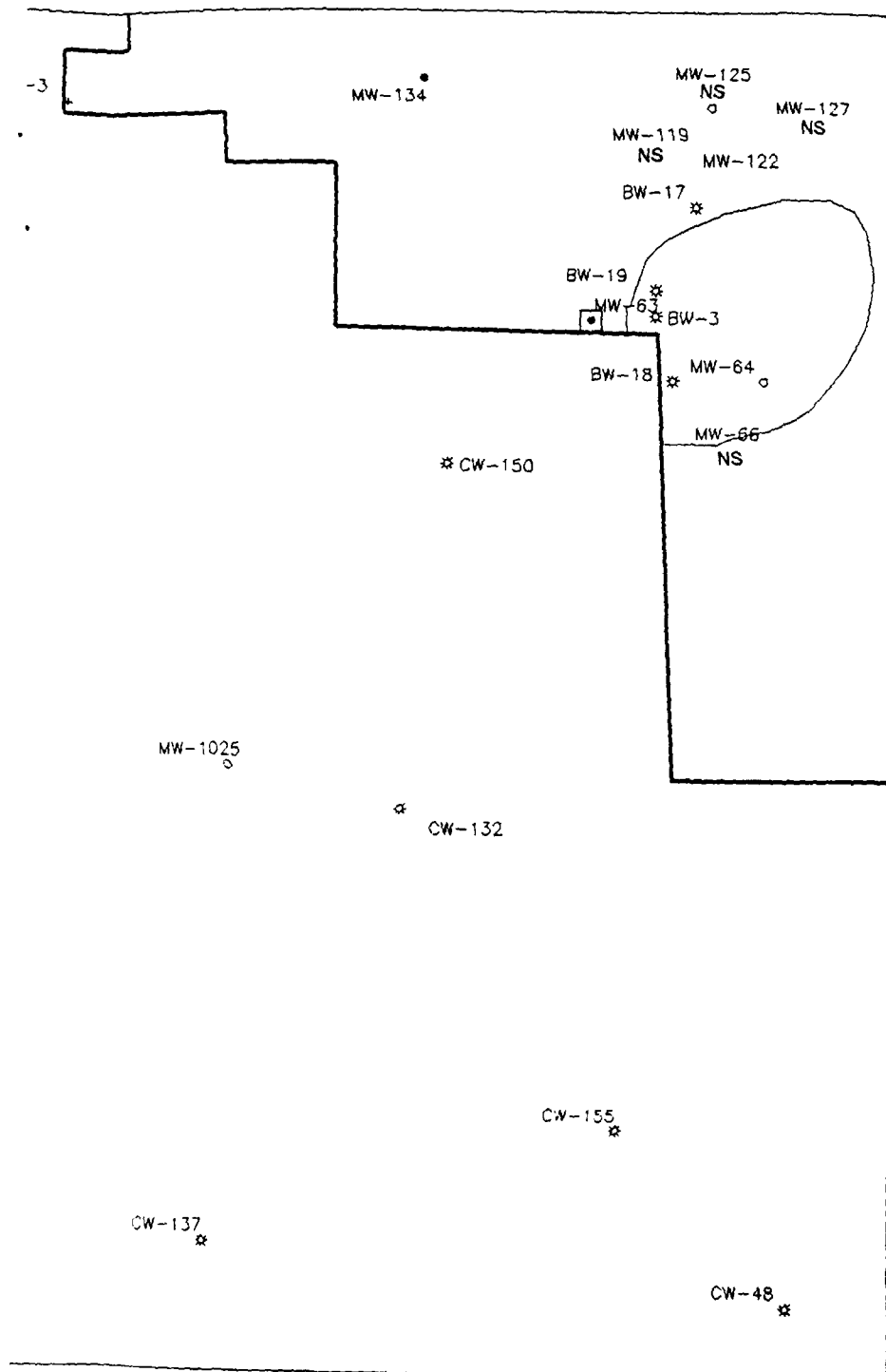
**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



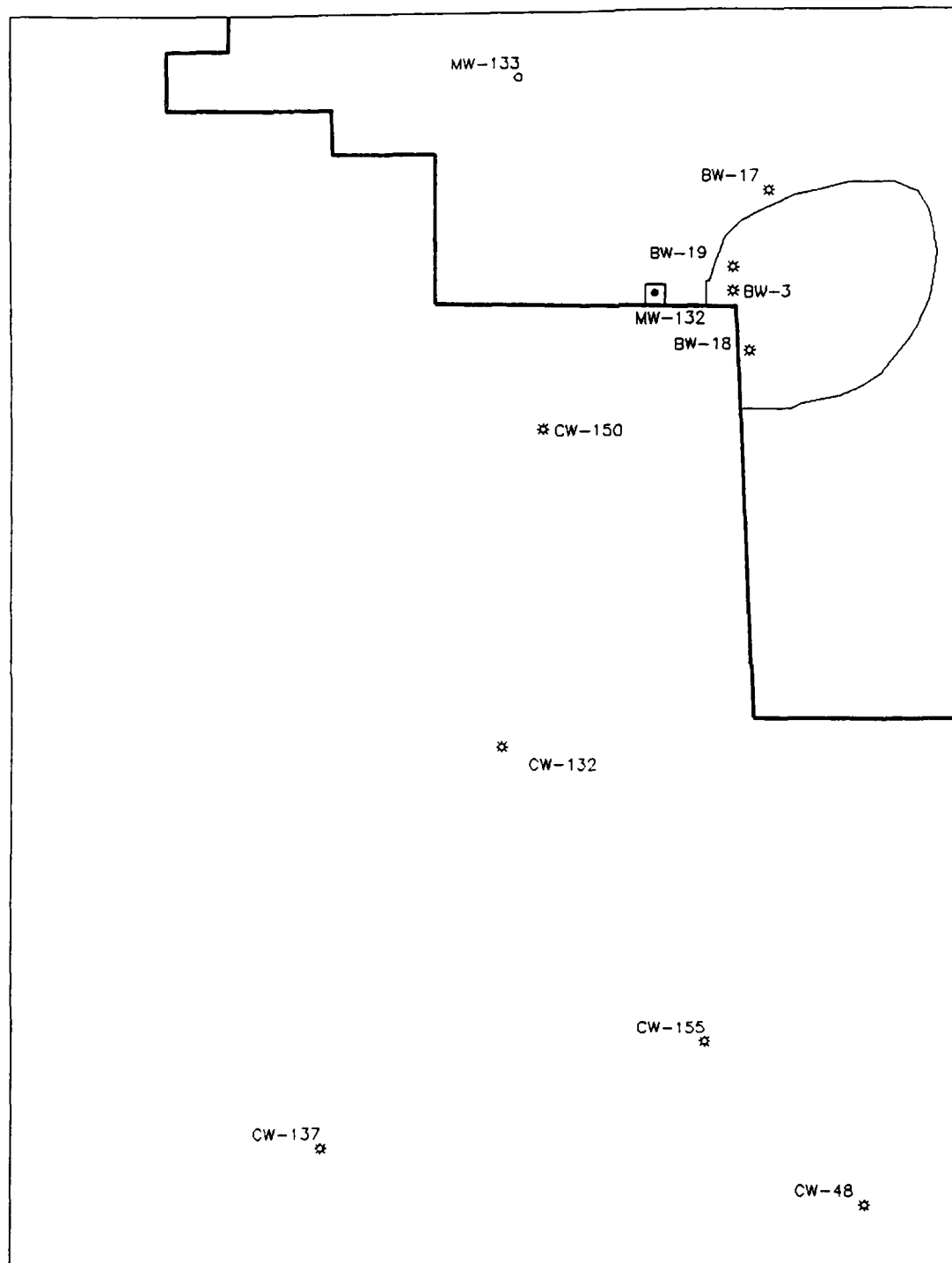
0 500 1000  
SCALE IN FEET

**RADIAN  
CORPORATION**



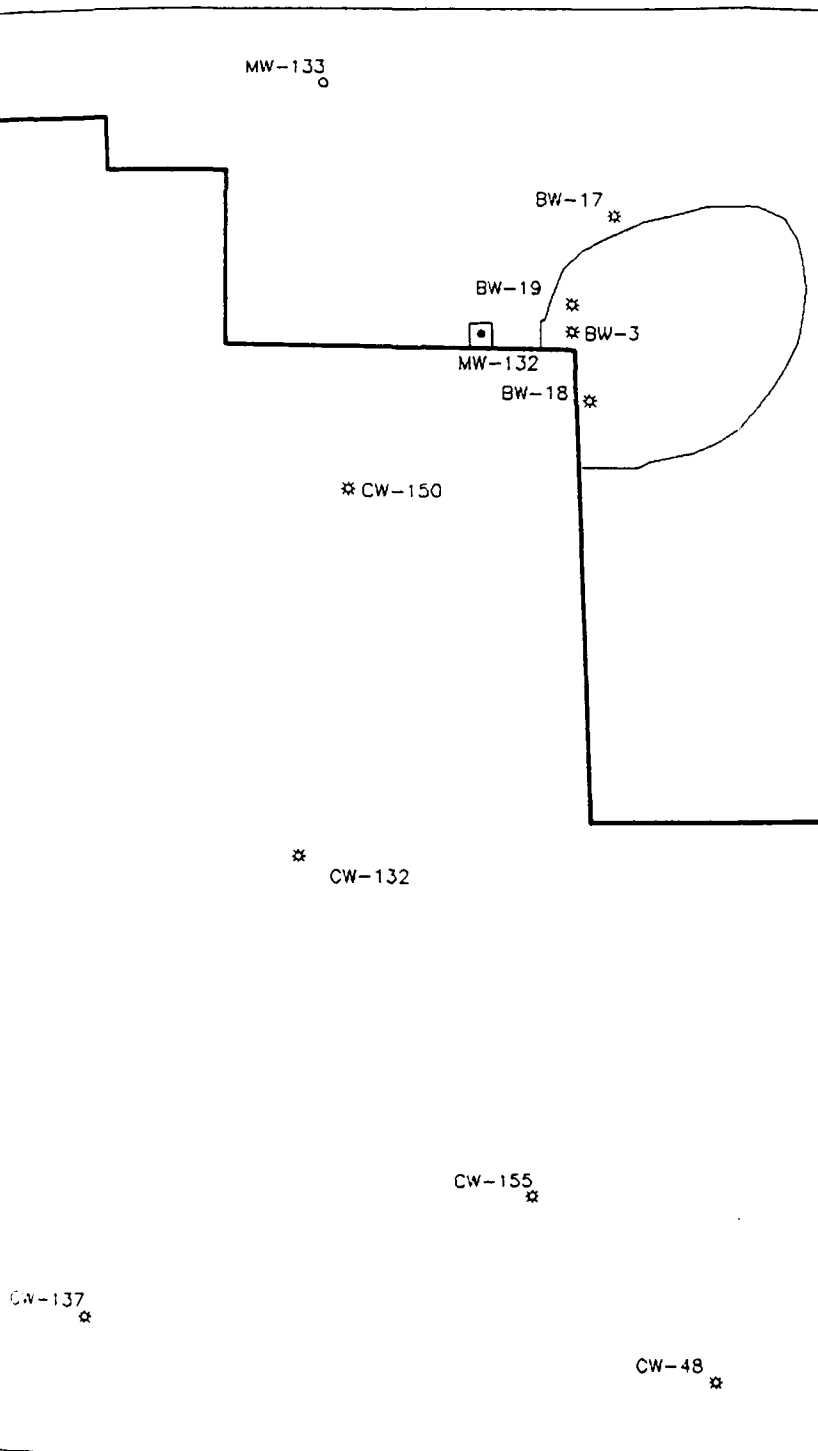
HISTORICAL OCCURRENCE OF TCE  
IN AREA B / SW DEEP "B" MONITORING WELLS

MOS  
IN AREA



CW-137

**MOST RECENT OCCURRENCE OF TCE  
IN AREA B / SW DEEP "B" MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-15.  
Historical & Present  
Occurrence of TCE in  
Deep "B" Zone Monitoring Wells,  
Area B & the Southwest Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◼ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 500 1000  
SCALE IN FEET

**RADIAN  
CORPORATION**

#### 3.2.4 Trend Analysis

The concentrations of the 10 key analytes for each monitoring well were statistically examined to determine if there were trends in concentrations over time. The statistical methods, detailed in Section 2.4, were used to provide an objective description of the analyte concentration changes.

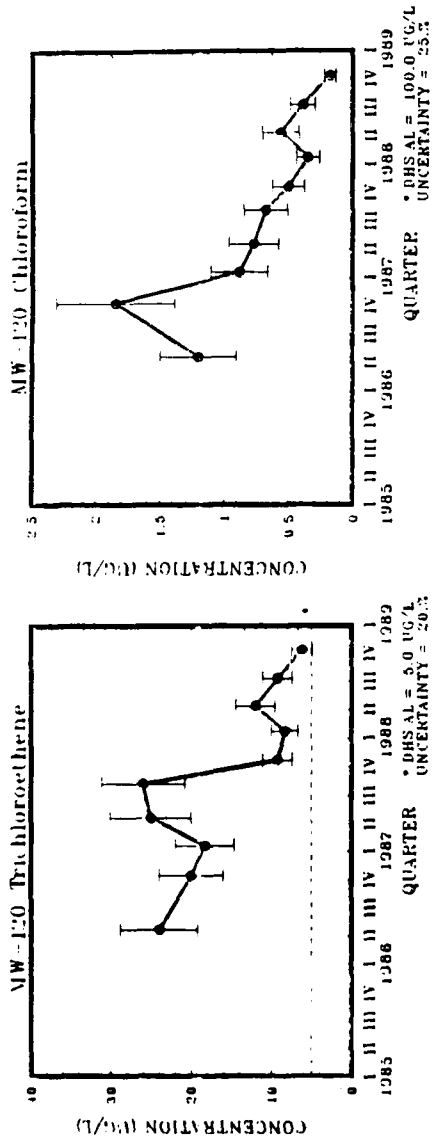
The contaminant concentrations of five monitoring wells in Area B and the Southwest Area show statistically significant trends. MW-120 located between Areas B and C, shows decreasing trends for TCE and chloroform. MW-41S located on the east side of Area B has shown dramatically increasing trends for both TCE and DCE since April 1988. Total 1,2-DCE in MW-132 shows an increasing trend. Contaminant concentrations in MW-1021 and MW-63 have been decreasing since April 1987.

Three of the five monitoring wells that show trends are screened in the shallow zone. Trichlorethene and chloroform concentrations in MW-120 show decreasing trends (Figure 3-16). Trichloroethene is estimated to be decreasing at the rate of -0.78 to -3.01 ug/L per sampling period. Chloroform concentrations are at very low levels (less than 2 ug/L) and the estimated change is between -0.17 and -0.08 ug/L per sampling period. MW-120 is part of a three well cluster, MW-120/MW-121/MW-122. Neither MW-121 nor MW-122 have shown a consistent presence of any Method 8010 analyte.

MW-41S, a shallow zone monitoring well, shows increasing trends for TCE, PCE and total-1,2-DCE (Figure 3-17). Trichloroethene and PCE concentrations have shown increasing trends only since April of 1988. Trichloroethene has increased from 220 ug/L to 2900 ug/L and PCE has increased from 10 to 370 ug/L during these three quarters. The trend for total 1,2-DCE does not follow the same pattern, but instead appears to be a step increase during the first quarter of 1987. Differences in contaminant concentration trends may be due to differences in the location of the sources, amounts of chemical used or the time period when the chemical was used.

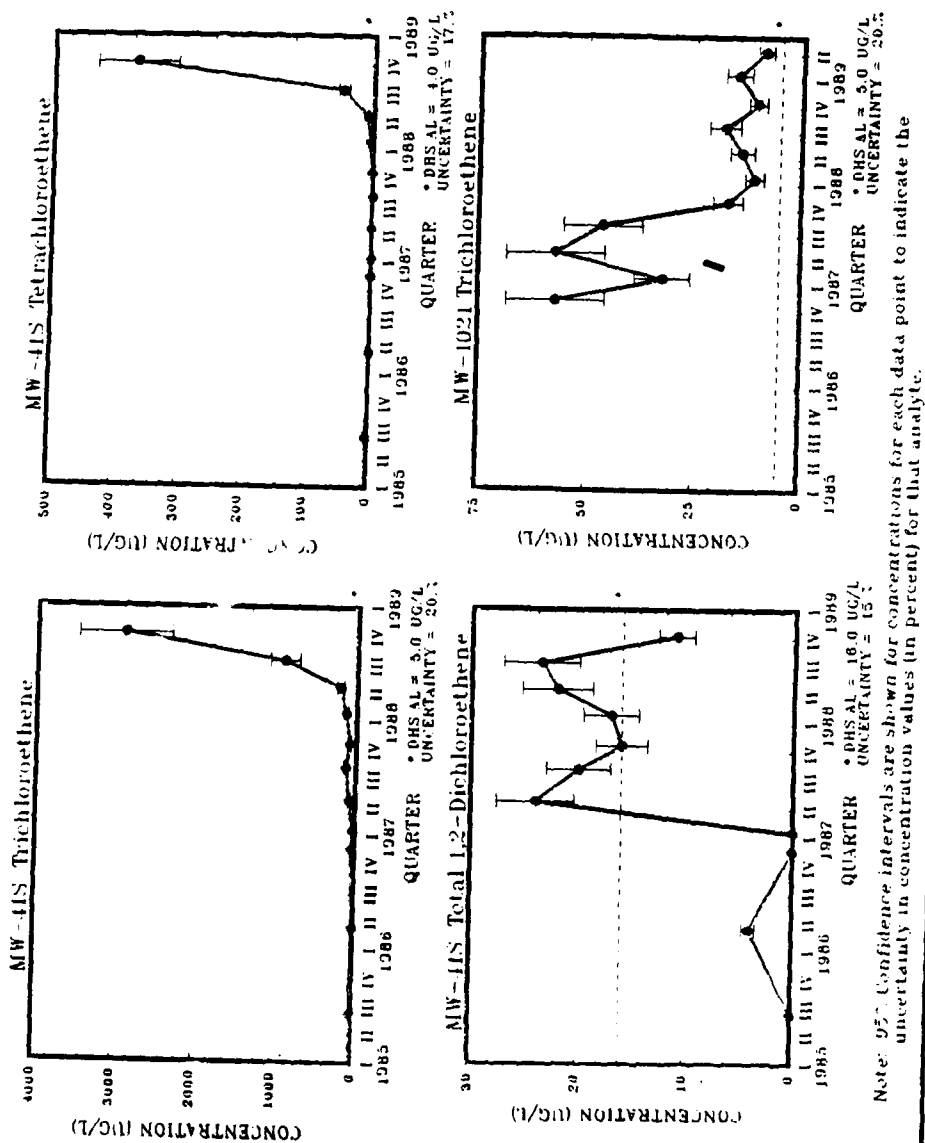


AREA B SHALLOW ZONE WELLS



Note: 95% Confidence intervals are shown for concentrations for each data point to indicate the uncertainty in concentration values (in percent) for that analyte.

Figure 3-16. Time Series Plots for MW-120 (Area B).



**Figure 3-17. Time Series Plots for MW-41S and MW-1021 (Area B and Southwest Area).**

The third shallow zone monitoring well exhibiting a trend in concentrations is MW-1021. MW-1021 shows a decreasing trend for TCE (Figure 3-17). Samples from this monitoring well have also consistently contained PCE which shows a decreasing trend if only the data since April 1987 is considered.

In the deep "B" monitoring zone of Area B, MW-132 shows an increasing trend for total 1,2-DCE with an expected increase ranging from 0.17 to 4.79 ug/L per sampling period (Figure 3-18). This well also contains TCE in the range of 48 to 110 ug/L but concentrations do not show a statistically significant trend. Another deep zone monitoring well, MW-63, located near MW-132 and north of MW-1021, shows TCE and total-1,2-DCE consistently. These analytes do not have detectable trends for the entire monitoring period. However, as in the case of the PCE concentration in MW-1021, the latter part of the data from April 1987 to the present show statistically significant decreasing trends for total 1,2-DCE (Figure 3-18).

#### 3.2.5 Discussion

A limited number of monitoring wells are located in Area B and Adjacent On-Base Areas and in the Southwest Area. Additional monitoring wells will help define localized groundwater flow directions, characterize contamination, and interpret rates and/or changes in contaminant migration. At this time, based on the available analytical and hydrological data, the following observations and interpretations can be presented:

- Local groundwater flow and contaminant movement in Area B appears to be controlled by pumping of BW-18; and
- Contaminants have been detected in two deep zone monitoring wells, (MW-63 and MW-132) west of BW-18, indicating vertical migration or migration at depth from an upgradient source.

Based on the results of aquifer tests, water level data and estimates of the physical characteristics of the aquifer material, an

# AREA B DEEP ZONE WELLS

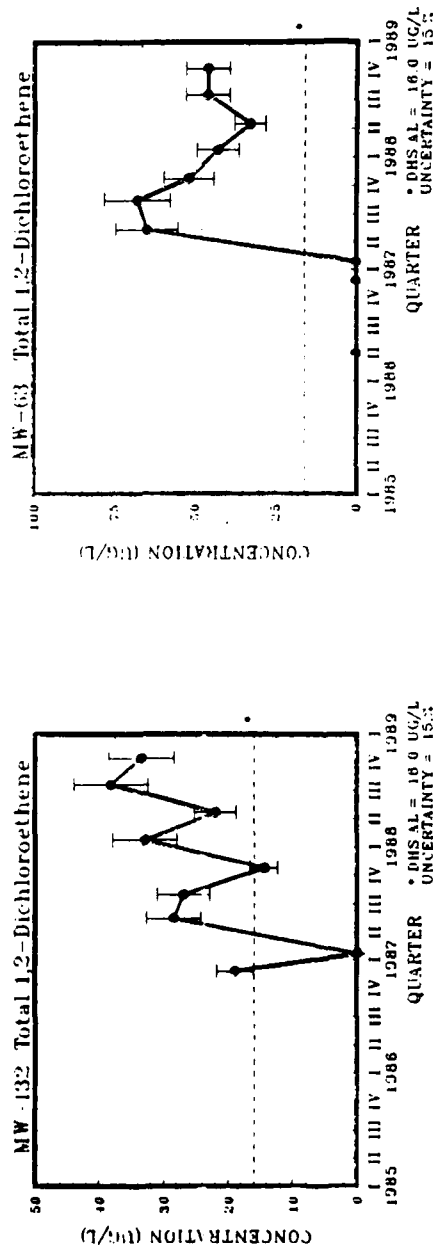


Figure 3-18. Time Series Plots for MW-132 and MW-63 (Area B).

estimated rate of groundwater flow beneath Area B can be made by using the equation for Darcy's velocity ( $q=KI/n$ ). Multiple well aquifer tests have been performed by Radian using middle and deep zone monitoring wells located north of Area B (approximately 1,500 feet north of BW-18). Estimates of average hydraulic conductivity for the middle and deep monitoring zones were 270 to 390 gallons/day/ft<sup>2</sup> respectively. Horizontal hydraulic gradients have ranged from 12.70 to 47.52 feet/mile in the middle monitoring zone and are estimated to be approximately 15.2 ft/mile in the deep monitoring zone. Effective porosity values have not been determined from field samples but can be estimated to be approximately 20 percent for the types of geologic materials encountered beneath Area B (Fetter, 1980).

Based on these values and using Darcy's equation, groundwater flow may be from 0.7 to 1.6 feet per day in the middle and deep monitoring zones beneath Area B and Adjacent On-Base Areas and the Southwest Area. These are estimates of groundwater flow based on aquifer hydraulic conductivity values derived from tests conducted north of Area B.

On the cross section for Area B, there appears to be a thick fine grained zone at a depth of approximately -50 to -100 ft msl. The layer however, does not appear to be effective in preventing the vertical migration of contaminants. Water quality samples collected from wells screened at deeper depths (MW-63 and MW-132) have consistently contained detectable concentrations of TCE and other key analytes at concentrations above drinking water standards. Concentrations of TCE in MW-63 have been greater than 20 ug/L since the monitoring well was installed in 1985. Also, aquifer tests north of Area B have shown that there is communication between monitoring zones above and below this fine-grained layer. Therefore, the most probable explanation based on current data for the presence of contaminants in the deep "A" and "B" zones is that the finegrained layer may include restricted sand bodies that allow vertical migration of contaminants.

The analytical results for samples from monitoring wells sampled since 1985 show that TCE is the most commonly detected analyte and thus can be

used to track contaminant migration within and southwest of Area B. Based on the potentiometric maps, occurrence of this compound and trend analyses, limited interpretations can be made regarding groundwater flow directions and contaminant migration within and southwest of the Area B. These interpretations are discussed below.

Base Well-18 and other off-base City of Sacramento water supply wells (CW-131, CW-132 and CW-150) have had the most influence on groundwater flow in this area of the base and the Southwest Area based on potentiometric maps since 1986. Potentiometric maps indicate a generally south to southwest groundwater flow direction. As discussed in the introduction (pg 1-15), there is a regional pumping depression centered south of the base. Pumping of BW-18 appears to have controlled the migration of contaminants in Area B and adjacent On-Base Areas. Base Well-18 was completed in 1953 and was in operation until 1981 when TCE was detected in the well. Operation of BW-18 was resumed in 1985 after a well head treatment system was installed. Pumping records up through March 1988 indicate that BW-18 is operated approximately 5 days a week at an average rate of 1,300 gallons per minute for an average of 14 hours per day. Contaminants have been detected in monitoring wells approximately 300 feet south of BW-18 (MW-1021 and MW-1022) during the last sampling event in October 1988. Trichloroethene was not detected in samples from wells located further south (MW-23D, MW-1016 and MW-1015). No contaminants were detected in the monitoring wells located west and southwest of BW-18 (MW-1000, MW-1020, MW-1023, MW-1024 and MW-1025). However, in the past TCE has been detected in most of these wells (Figure 3-12 through 3-15).

There is evidence of contaminant migration toward BW-18 from the east. Trend analyses of monitoring wells located upgradient (east) of BW-18 indicated that TCE concentrations in MW-41S have shown a large increasing trend over the past year. Concentrations of TCE in MW-41S have increased from 81 ppb in October 1987 to 2900 ppb in October 1988. This large increasing trend indicates migration from sources upgradient of MW-41S toward BW-18.

Contaminants may also be migrating toward Area B from Area A based on groundwater flow directions and the recently detected presence of TCE and

carbon tetrachloride in BW-13 located downgradient from Area A and upgradient from Area B.

Contaminants have been detected in all four monitoring zones indicating that there has been vertical migration either in Area B or in another area upgradient from Area B. Contaminants have been detected in monitoring wells located between BW-18 and Area A. BW-18 appears to be a significant factor in the movement of contaminants in Area B.

### 3.3 Area C and Adjacent On-Base Areas

Area C is located on the western side of the base. The boundary for Area C was determined during initial investigations by CH2M Hill based on locations of potential hazardous waste releases.

There have been various activities related to industrial waste storage and treatment in Area C. These activities have resulted in burn pits, waste disposal pits, waste storage and handling areas, and wastewater storage and treatment ponds. Treatment of wastewater and contaminated groundwater continue in Area C at the present time. During work to identify and characterize sites in 1985, McLaren also sampled groundwater in the area. Contaminated groundwater was detected within Area C and in areas west and south of the Area C.

There are a total of 45 monitoring wells and four extraction wells in Area C and Adjacent On-Base areas. Twenty-seven monitoring wells are screened in the shallow monitoring zone; 8 are screened in the middle monitoring zone; 7 are screened in the deep "A" monitoring zone; and 3 are screened in the deep "B" monitoring zone beneath the deep "A" zone. Groundwater quality beneath Area C and Adjacent On-Base Areas is currently monitored using 35 monitoring wells. Of the 27 shallow zone monitoring wells, 10 wells are now dry or do not contain enough water for sampling. The 4 extraction wells are used to remove contaminated groundwater for treatment and are

screened in the middle, deep "A" and deep "B" monitoring zones. Tables 3-11 and 3-12 present information on the monitoring and extraction wells in Area C. The locations of the monitoring and extraction wells are shown in Figure 3-19. There are no active water supply wells in Area C. There were two water supply wells in Area C when the base acquired the property, but the locations are unknown and these wells have never been used by the Air Force.

### 3.3.1 Potential Sources of Groundwater Contamination

Area C, 12 sites have been confirmed as sources of contaminant discharges, and there are 28 PSPRLs and 3 UPRRLs. Beginning in the 1940s Area C was used for storing, treating, and disposing of wastes. Landfills, sludge pits, burn pits, holding and setting ponds, sludge ponds, and waste oil storage ponds have been located in Area C (Figure 3-20). In McLaren's "Basewide Report on Contamination at McClellan AFB," (McLaren, 1986) two sites were identified as having shown significant vertical and lateral migration of hazardous materials. These two sites include Site 22 where oily wastes and solvents were stored and Site 42 which consisted of three oil storage ponds. The oil storage ponds were subsequently covered by the Industrial Waste Treatment Plant aeration ponds. McLaren also reported that migration of the wastes was primarily to the south and southeast. In addition, McLaren reported there may have been some lateral migration of chemical wastes to the north from Site 22.

### 3.3.2 Hydrogeologic Data

The soils in Area C are similar to those in Areas A, B, and D. They are mapped as Xeralfic Arents and as urban land where covered by buildings or asphalts. Xeralfic Arents are characterized by moderately deep to very deep well drained soils. Permeability is moderate to slow. The surface layer is a sandy loam or sandy clay loams. The subsurface layer is a loamy sand or sandy loam with clay loam or clay fragments. A weakly cemented hardpan can



TABLE 3-11. MONITORING WELLS LOCATED IN AREA C AND ADJACENT ON-BASE AREAS

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells <sup>b</sup>	Abandoned	Total Number of Wells
Shallow	MW-21S <sup>a</sup>	MW-2 <sup>b</sup>	MW-78	MW-20S <sup>a</sup> ,	27
	MW-33S <sup>a</sup>	MW-77	MW-79	MW-22S <sup>a</sup> ,	
	MW-36S <sup>a</sup>	MW-82	MW-80	MW-34S	
	MW-44S <sup>a</sup>		MW-81	MW-35S	
	MW-60			MW-37	
	MW-61			MW-45S <sup>a</sup> ,	
	MW-62				
	MW-107				
	MW-110				
	MW-111 <sup>a</sup>				
	MW-114 <sup>a</sup>				
	MW-128				
	MW-131 <sup>a</sup>				
	MW-139 <sup>a</sup>				
Middle	MW-20D	None	None		8
	MW-21D <sup>a</sup>				
	MW-75				
	MW-108				
	MW-113				
	MW-115				
	MW-129 <sup>a</sup>				
	MW-135 <sup>a</sup>				
Deep "A"	MW-22D <sup>a</sup>	None	None		7
	MW-109				
	MW-112				
	MW-130 <sup>a</sup>				
	MW-134 <sup>a</sup>				
	MW-142				
	MW-143				
Deep "B"	MW-133				3
	MW-136 <sup>a</sup>				
	MW-138				
Totals	32	3	4	6	45

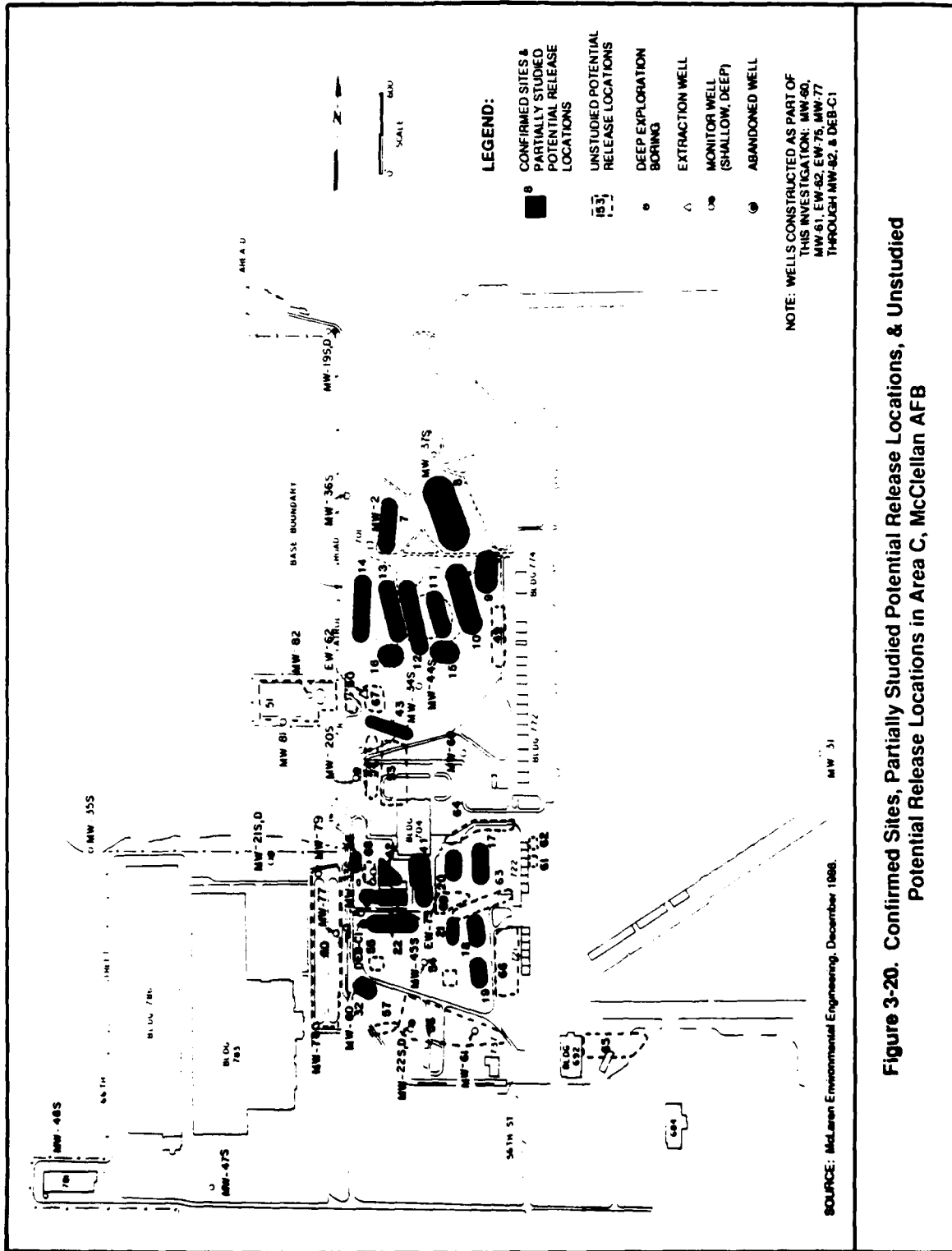
<sup>a</sup> Samples collected from this well have contained TCE.

<sup>b</sup> Under consideration for abandonment (destruction).

TABLE 3-12. EXTRACTION WELLS LOCATED IN AREA C GROUNDWATER SAMPLING  
AND ANALYSIS PROGRAM, ANNUAL TECHNICAL REPORT  
(JAN - DEC 1988)

Groundwater Monitoring Zone	Extraction Well
Deep "A"	EW-137
Deep "A"	EW-140
Deep "B"	EW-141
Middle and Deep "A"	EW-144





**Figure 3-20. Confirmed Sites, Partially Studied Potential Release Locations, & Unstudied Potential Release Locations in Area C, McClellan AFB**

be found at depths from 32 to 60 inches or more. Xeralfic Arents are formed in fill material mixed by grading and excavation activities. The fill material is derived from nearby soils of mixed and granitic origin.

Interbedded alluvial deposits of sand, silt, and clayey silts lie beneath the surface soils. As shown in the south to north cross section through Area C (Figure 3-21), most of the coarser-grained sediments do not appear to be continuous. There does appear to be a finer-grained zone that is continuous at a depth of about -150 ft msl. Even within this finer grained zone, there are inclusions of sands. The location of this profile is shown on Figure 3-19.

Water-level measurements in Area C monitoring wells have been used to develop potentiometric surface maps and determine groundwater flow directions. In Area C groundwater flow has typically followed the regional groundwater flow direction from north to south. Pumping of water supply wells south of Area C by the base and municipalities has created a regional flow pattern to the south. In 1985, potentiometric maps developed by McLaren indicated a southerly groundwater flow, but a groundwater divide near MW-36 was also noted. North of MW-36 groundwater flow was north or toward Area D. Based on the interpretation of the shallow monitoring zone potentiometric maps for October 1988, there is currently a groundwater divide in the northern end of Area C. There are no middle or deep zone monitoring wells in the same area to use in determining the local groundwater flow directions. Because of the lack of water level data, the approximate area of a groundwater divide in the middle and deep monitoring zones cannot be determined. At the end of August 1988, pumping of the Area C extraction wells was begun. The effects of the extraction system on the groundwater flow regime however cannot be identified on the potentiometric maps generated from the October 1988 water-level data.

The four extraction wells that comprise the Area C extraction system are located along a north-south line and are shown in Figure 3-19. Extraction well EW-144 is the furthest north; EW-137 is located approximately 550 feet south of EW-144, and EW-140 and EW-141 are located approximately 445 feet

C  
SOUTH

▲ MW-135  
▲ MW-134  
▲ MW-133

▲ MW-139  
■ EW-141  
■ EW-140

■ EW-137  
▲ MW-136

EW-144

▲ MW-75

▲ MW-20

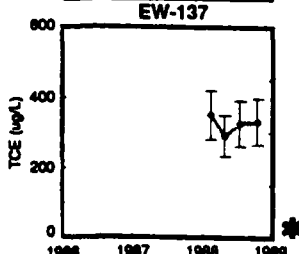
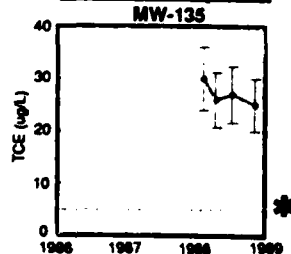
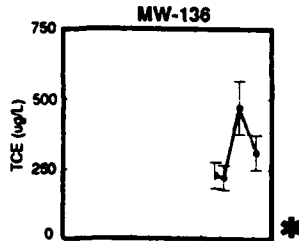
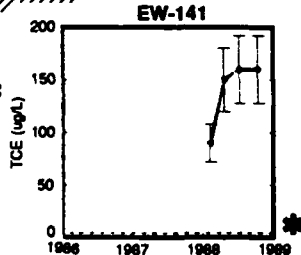
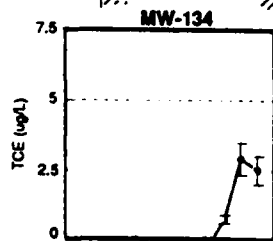
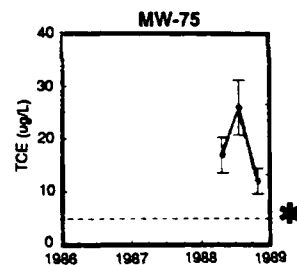
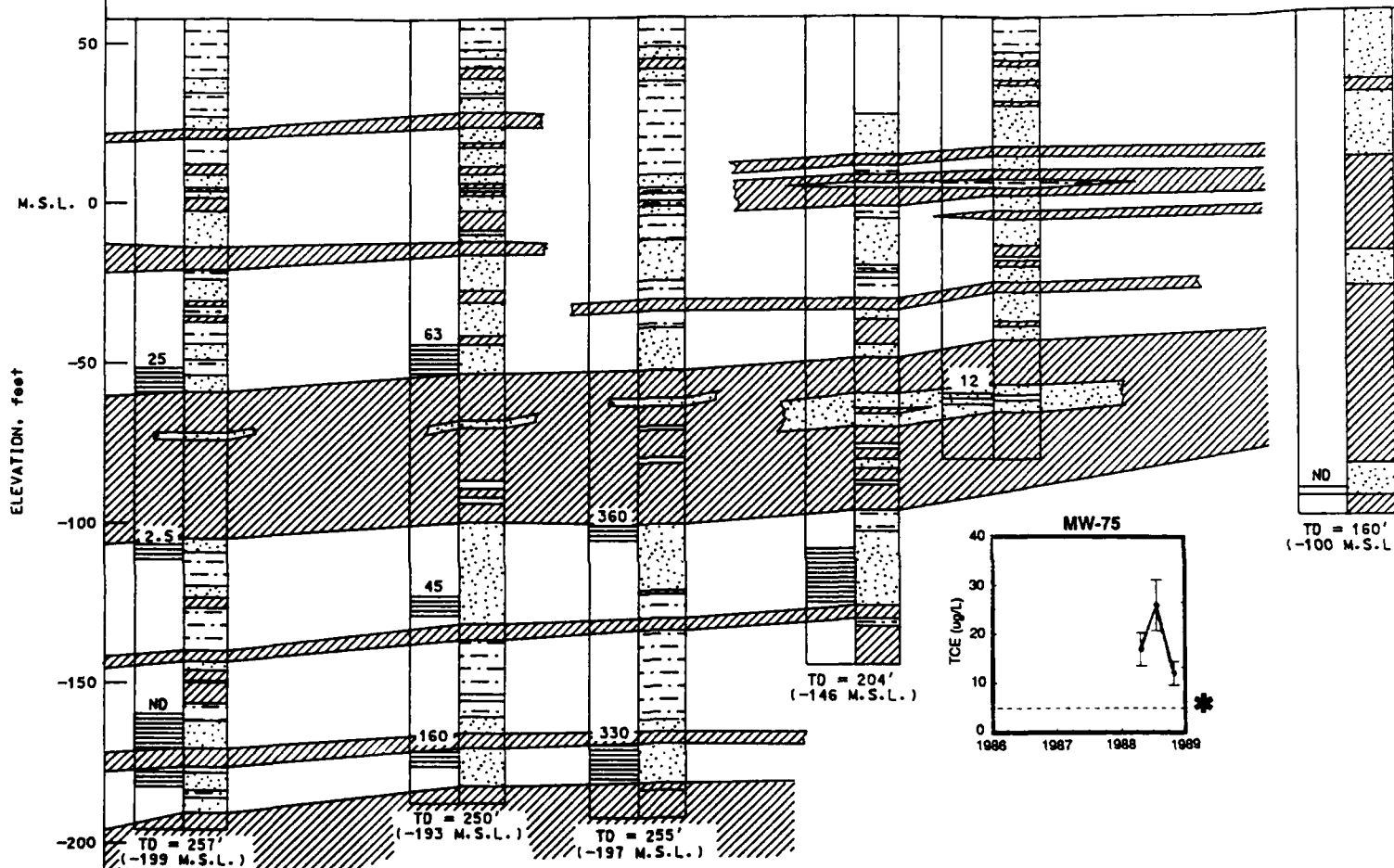
700'

450'

575'

350'

950'



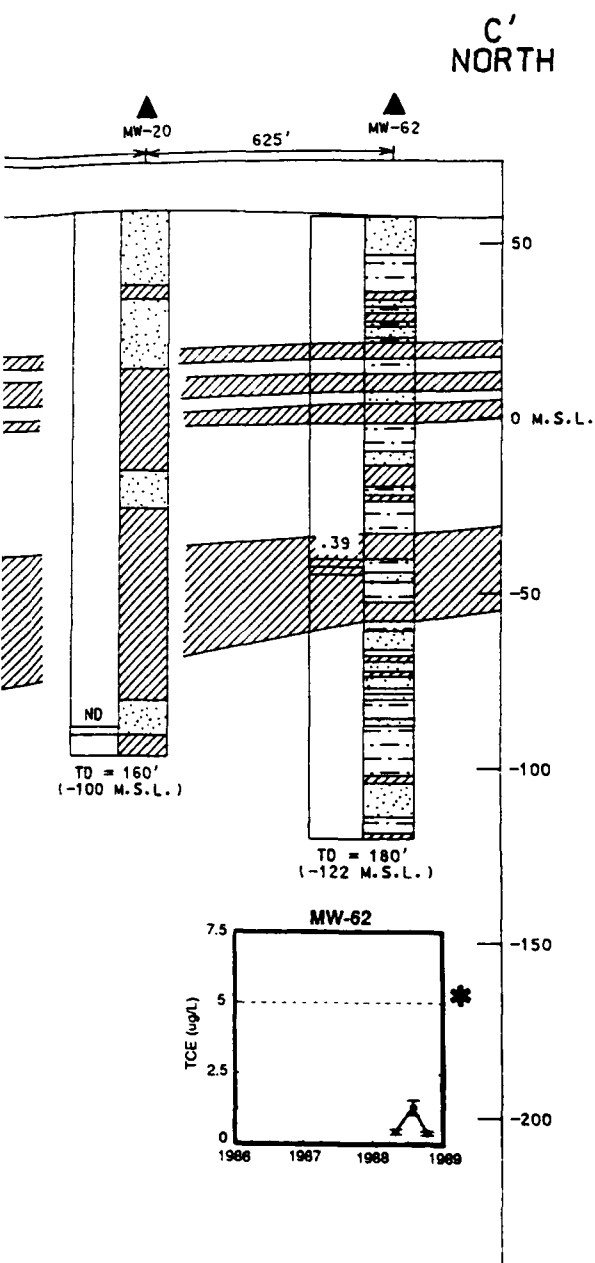


Figure 3-21.  
Subsurface Profile, Area C

## LEGEND

- ▲ MONITORING WELL (MW)
- EXTRACTION WELL (EW)
- ☼ BASE PRODUCTION WELL (BW)
- M.S.L. MEAN SEA LEVEL
- TD TOTAL DEPTH

- SAND
- SILT
- CLAYEY SILT
- NO DATA
- SCREEN INTERVAL

## SCALE

HS: 1" = 438'  
VS: 1" = 54'  
VE = 8.1

NOTE: TCE CONCENTRATIONS ARE REPORTED NEXT TO SCREEN INTERVALS  
IN ug/L FOR OCTOBER THROUGH DECEMBER, 1988 SAMPLING PERIOD.  
ND = NOT DETECTED

GENERATED BY: *Sam Thompson* 7-20-89  
PROJECT REVIEW: *Marie McLaughlin* 7-21-89  
PEER REVIEW: *Dyle P. Thompson* 7-21-89

**RADIAN**  
CORPORATION

\* DHS and EPA Action Levels equal to 5ug/L

south of EW-137. The extraction well specifications are presented in Appendix A-3. The average combined flow rate from the four extraction wells was approximately 160 gpm during the four months of operation in 1988. The four wells are screened at different depths and extract water from different monitoring zones. EW-137 is screened from 162 to 172 feet below ground surface (ft BGS) or in the deep "A" monitoring zone. EW-140 is screened from 180 to 190 ft BGS (deep "A" monitoring zone) and EW-141 is screened from 230 to 240 ft BGS (deep "B" monitoring zone). EW-144 is screened at two intervals, from 120 to 130 ft BGS and from 165 to 185 ft BGS (middle and deep "A" zones).

Gradients were calculated to determine changing flow potentials since the fourth quarter of 1985. As shown in Table 3-13, horizontal and vertical gradients have been increasing since 1985. There is an increasing flow potential to the south as indicated by the increasing horizontal gradients. There is also an increasing downward flow potential between the shallow and the middle monitoring zones and the middle and deep "A" monitoring zones since 1985.

### 3.3.3 Horizontal and Vertical Distribution of Contaminants

After groundwater sampling of the existing monitoring wells in 1985, McLaren noted that contaminants were detected in almost all wells but that there was more contamination south of the Industrial Wastewater Treatment Plant (IWTP) (the former location of oil storage ponds). In recent sampling during October 1988, contaminants continue to be detected throughout Area C, but the highest concentrations of TCE have been detected in wells located south of the IWTP. Since 1985, several monitoring wells screened in the shallow monitoring zone have become dry as water levels have declined about two feet per year in Area C.



TABLE 3-13. GRADIENTS OF SELECTED WELL PAIRS IN AREA C

Well Pair	Monitoring Zone	Vertical or Horizontal Distance (feet)	Head Difference (feet)	Gradient
4 Q 1987:				
Horizontal:				
MW-33S/MW-128	Shallow	197	0.21	5.63 ft/mi
MW-75/MW-129	Middle	252	0.52	10.90 ft/mi
MW-22D/MW-130	Deep "A"	650	0.21	1.71 ft/mi
Vertical:				
MW-21S/MW-21D	Shallow/Middle	45	0.90	-0.02 ft/ft
MW-128/MW-129	Shallow/Middle	38	0.38	-0.01 ft/ft
MW-129/MW-130	Middle/Deep	51	1.54	-0.03 ft/ft
3 Q 1988:				
Horizontal:				
MW-33S/MW-128	Shallow	197	0.19	5.09 ft/mi
MW-75/MW-129	Middle	252	0.50	10.48 ft/mi
MW-136/MW-138	Deep "B"	585	0.35	3.18 ft/mi
MW-22D/MW-130	Deep "A"	650	0.06	0.50 ft/mi
Vertical:				
MW-21S/MW-21D	Shallow/Middle	45	-0.82	-0.02 ft/ft
MW-128/MW-129	Shallow/Middle	38	-0.31	-0.01 ft/ft
MW-129/MW-130	Middle/Deep	51	-1.55	-0.03 ft/ft
MW-135/MW-134	Middle/Deep	56	-1.15	-0.02 ft/ft
4 Q 1988				
Horizontal:				
MW-136/MW-138	Deep "B"	585	0.12	1.08 ft/mi
Vertical:				
MW-128/MW-129	Shallow/Middle	38	-0.5	-0.01 ft/ft
MW-129/MW-130	Middle/Deep	51	-2.84	-0.06 ft/ft
MW-135/MW-134	Middle/Deep	56	-0.93	-0.02 ft/ft

Note: Negative (-) gradients indicate downward flow potential, or horizontal flow potential towards an extraction well.

Monitoring wells in which TCE has historically been detected and in which TCE has most recently been detected are shown in Figures 3-22, 3-23, 3-24 and 3-25. Results from the sampling events prior to October 1988 indicate contamination was detected in the shallow monitoring zone throughout Area C as well as to the west and south of Area C. More recent sampling results show TCE has been detected throughout Area C and to the south, but not in samples from on-base wells west of Area C (MW-107, MW-110, MW-111, and MW-114). Contaminants have been detected in the middle monitoring zone near Sites 22 and 42, and south of Area C. Deep zone contamination has also been detected near Sites 22 and 42, and south of Area C. Contaminants have been detected in a well cluster located approximately 2000 feet south of Sites 42 and 22. At this well cluster, TCE has been detected in the middle and deep "A" monitoring zone wells (MW-135 and MW-134, respectively) but not in the deep "B" zone monitoring well (MW-133). Table 3-14 presents the range of concentrations of key analytes detected in Area C monitoring wells.

#### 3.3.4 Trend Analysis

A trend analysis of analytical results from wells with sufficient data was conducted to establish "pre-extraction system" information. Both increasing and decreasing contaminant trends are evident in Area C monitoring wells. Trends of increasing or decreasing contaminant concentrations over time are shown as graphs in Figures 3-26 through 3-29.

In the northern section of Area C there are two wells that have been monitored consistently and show trends in contaminant concentrations. MW-36S, a shallow zone monitoring well, shows an increasing then a decreasing trend for trichlorofluoromethane (Figure 3-26). This type of pattern could indicate that a slug of material was released at one point in time. Uncertainty brackets are not included on the trichlorofluoromethane time series plot due to a lack of field duplicate pairs in which this compound was detected. Trichloroethene has also been detected consistently at levels ranging from 1.6 to 5.3 ug/L, but shows no trend. Another shallow zone monitoring well, MW-44S

TABLE 3-14. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES <sup>a</sup>  
 IN MONITORING WELLS LOCATED IN AREA C AND ADJACENT ON-BASE AREAS  
 FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/L			
Shallow	Vinyl chloride	0.6	15
	1,1-Dichloroethene	0.24	8.5
	1,1-Dichloroethane	0.18	440
	Total 1,2-Dichloroethene	0.10	780
	Chloroform	0.1	300
	1,2-Dichloroethane	0.10	530
	1,1,1-Trichloroethane	0.24	280
	Carbon tetrachloride	0.31	22
	Trichloroethene	0.2	68000
	Tetrachloroethene	0.12	26
Middle	Total 1,2-Dichloroethene	0.25	7.5
	Chloroform	0.96	1.6
	1,2-Dichloroethane	0.39	0.95
	Trichloroethene	0.8	610
Deep	1,1-Dichloroethene	1.9	297
	1,1-Dichloroethane	0.15	16.7
	Total 1,2-Dichloroethene	0.16	8.8
	Chloroform	0.17	0.43
	1,1,1-Trichloroethane	0.44	133
	Trichloroethene	0.75	470
	Tetrachloroethene	13.5	13.5

<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

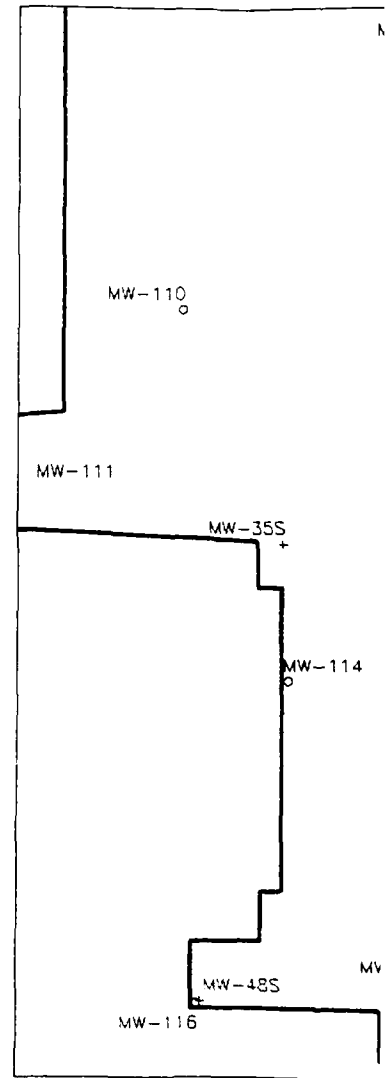
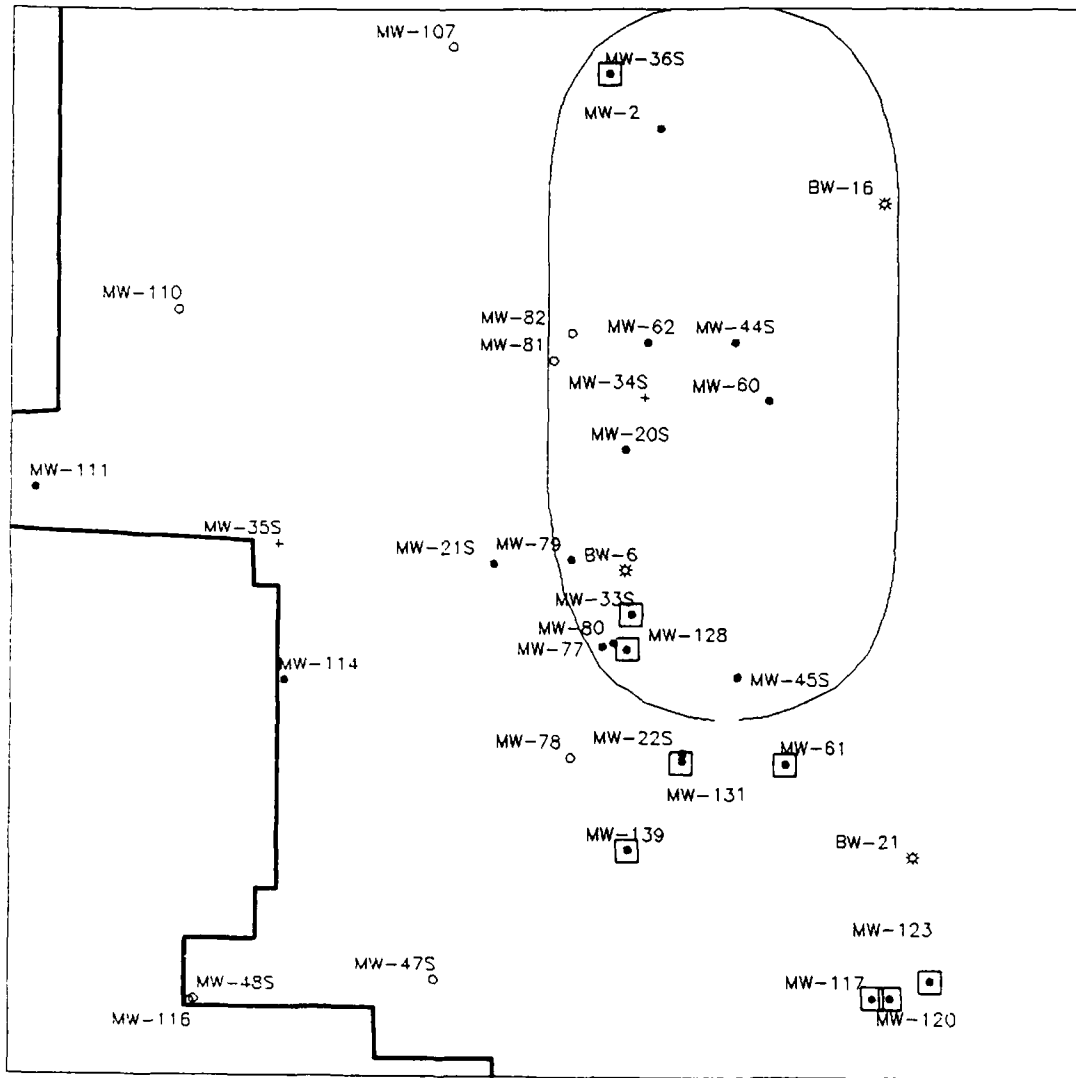
Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

NE - not established.

All unit are ug/L.

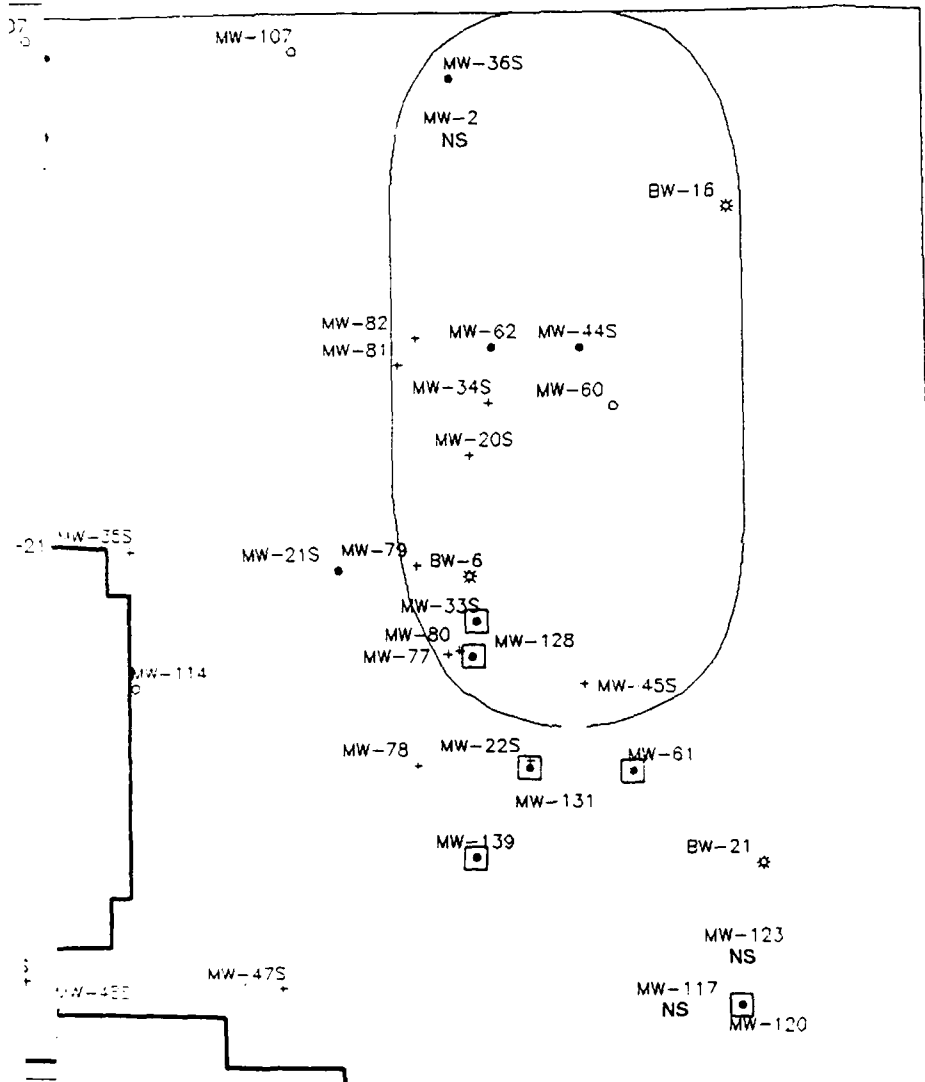
# HISTORICAL OCCURRENCE OF TCE IN AREA C SHALLOW MONITORING WELLS

MOST  
IN AREA



**Figure 3-22.**  
**Historical & Present**  
**Occurrence of TCE in**  
**Shallow Zone Monitoring Wells,**  
**Area C & Adjacent On-Base Areas.**

**MOST RECENT OCCURRENCE OF TCE**  
**IN AREA C SHALLOW MONITORING WELLS**  
**(OCTOBER 1988)**



**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

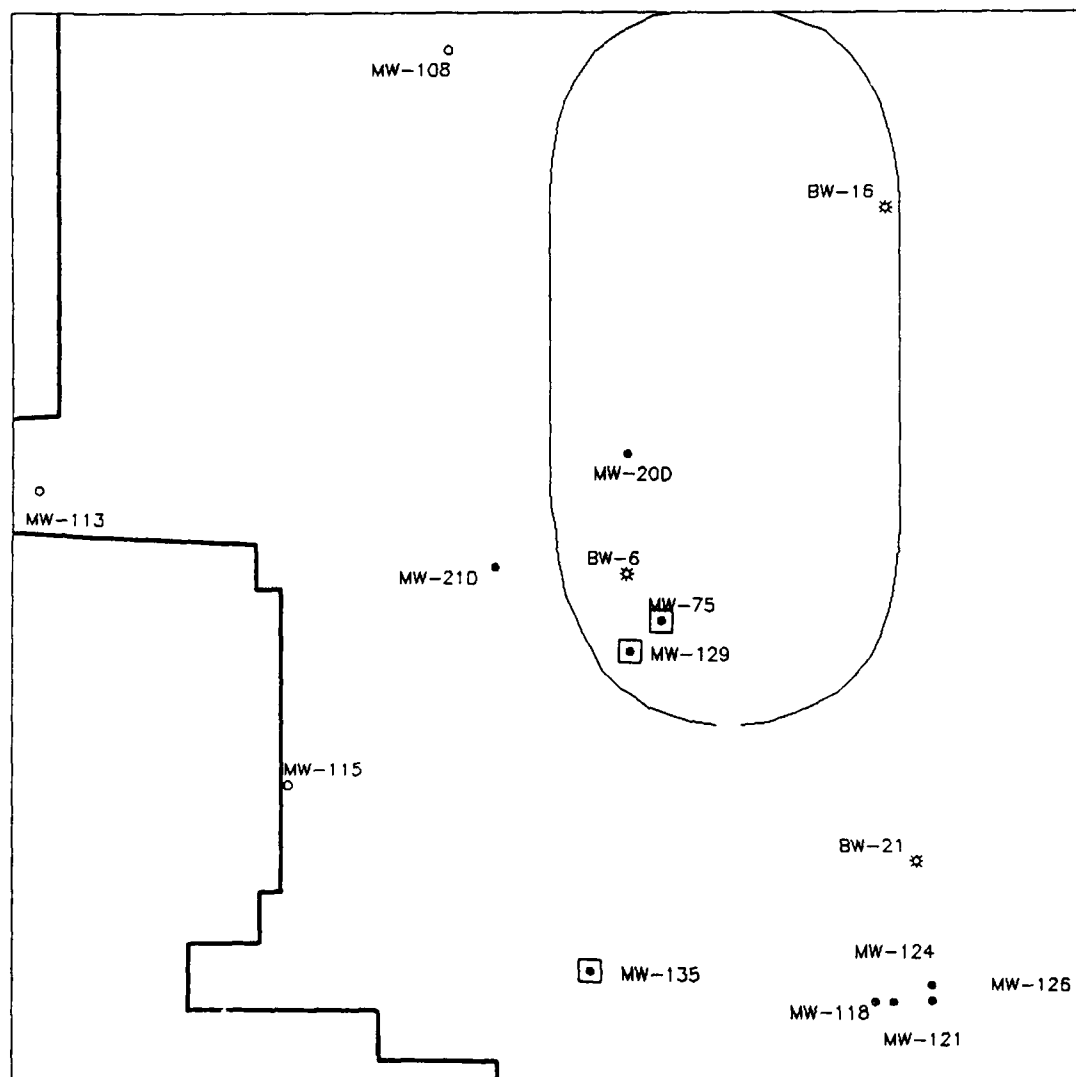
**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well

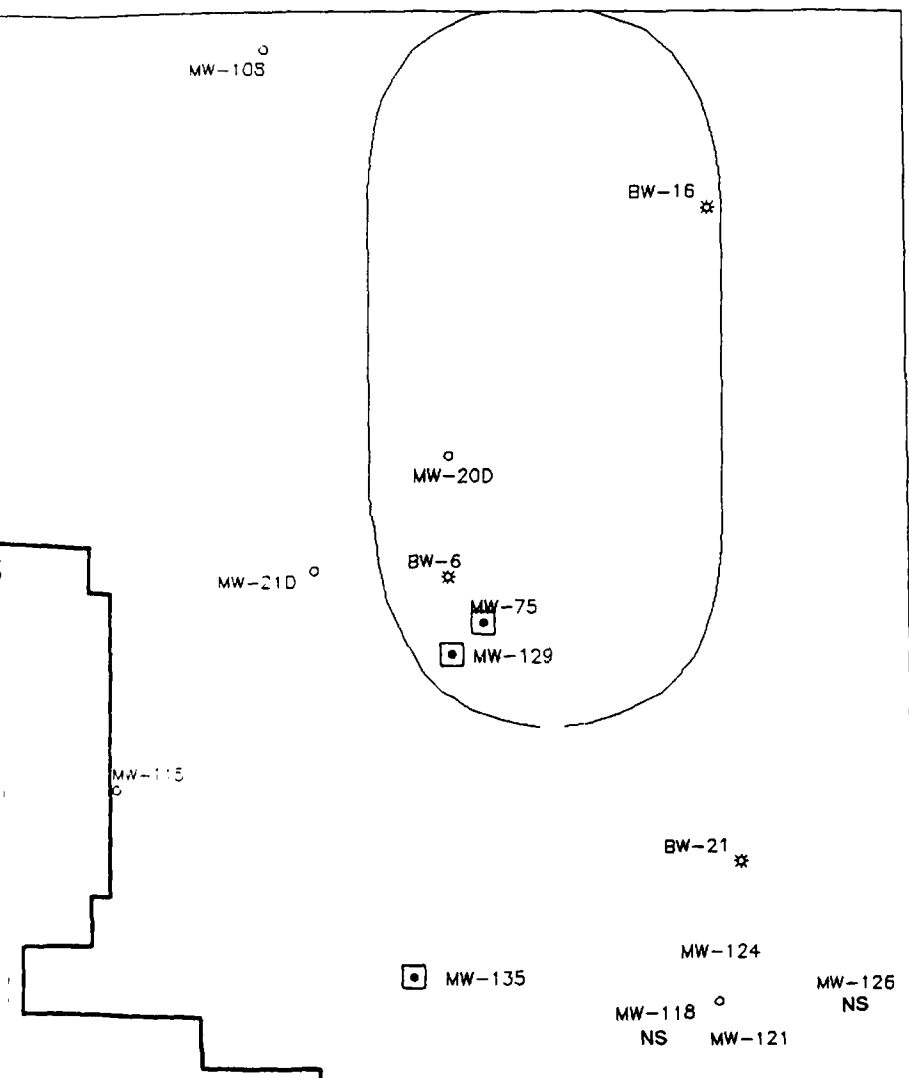


**RADIAN**  
 CORPORATION

# HISTORICAL OCCURRENCE OF TCE IN AREA C MIDDLE MONITORING WELLS



**MOST RECENT OCCURRENCE OF TCE  
IN AREA C MIDDLE MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-23.  
Historical & Present  
Occurrence of TCE in  
Middle Zone Monitoring Wells,  
Area C & Adjacent On-Base Areas.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well

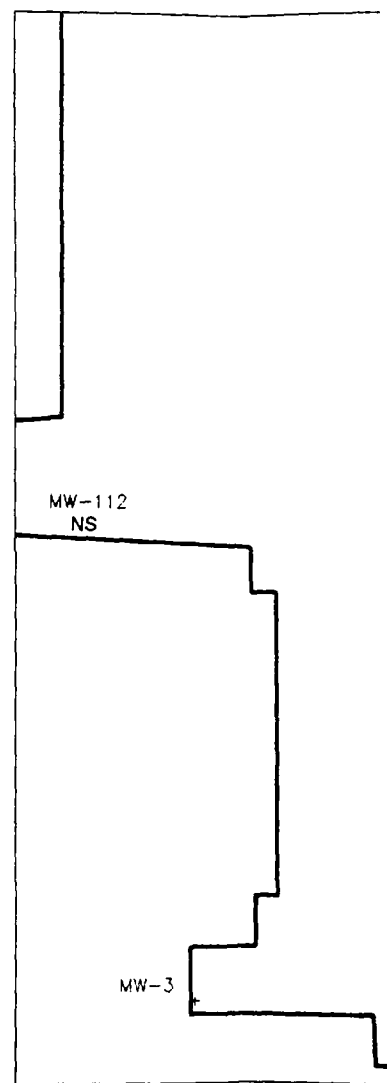
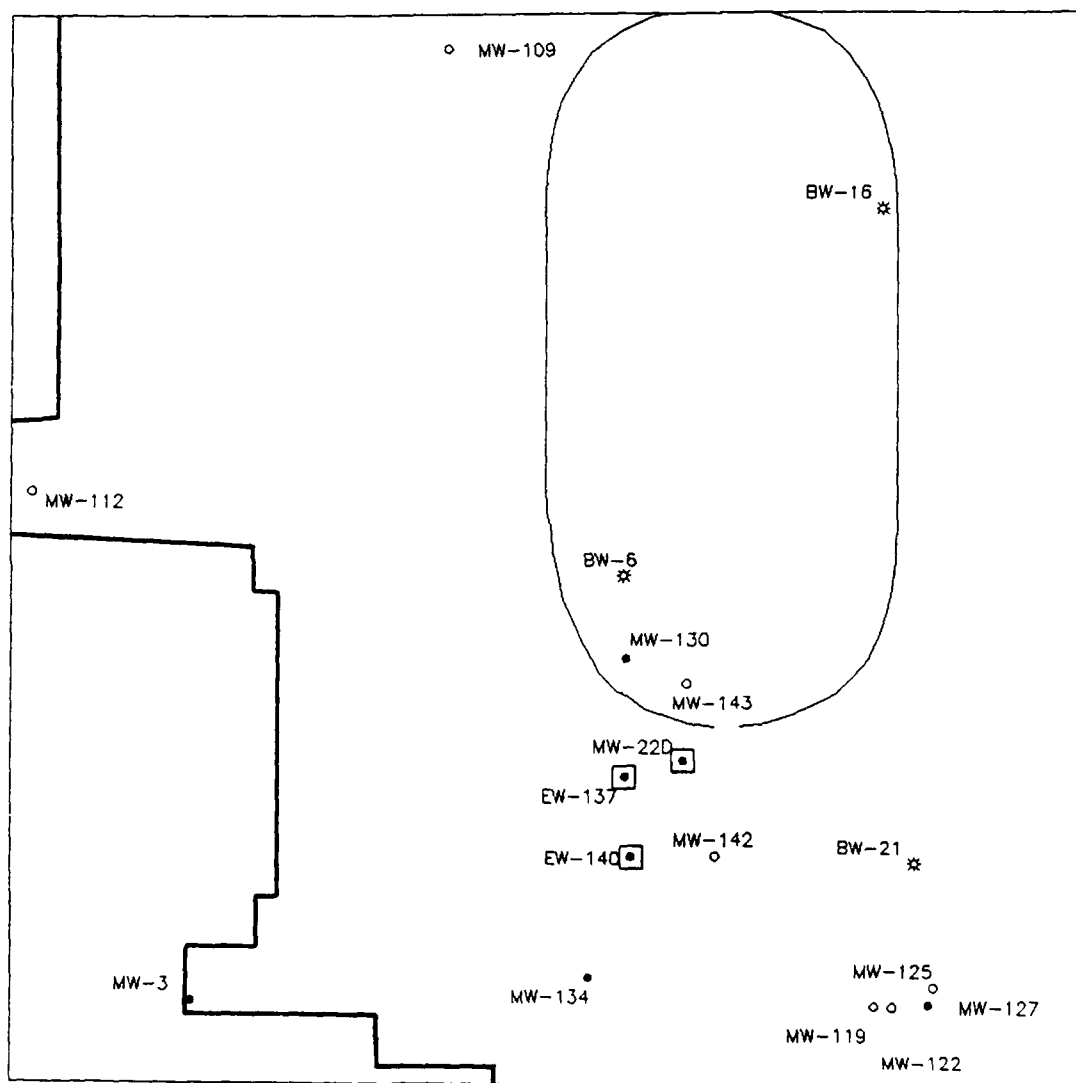


0 500 1000  
SCALE IN FEET

**RADIAN  
CORPORATION**

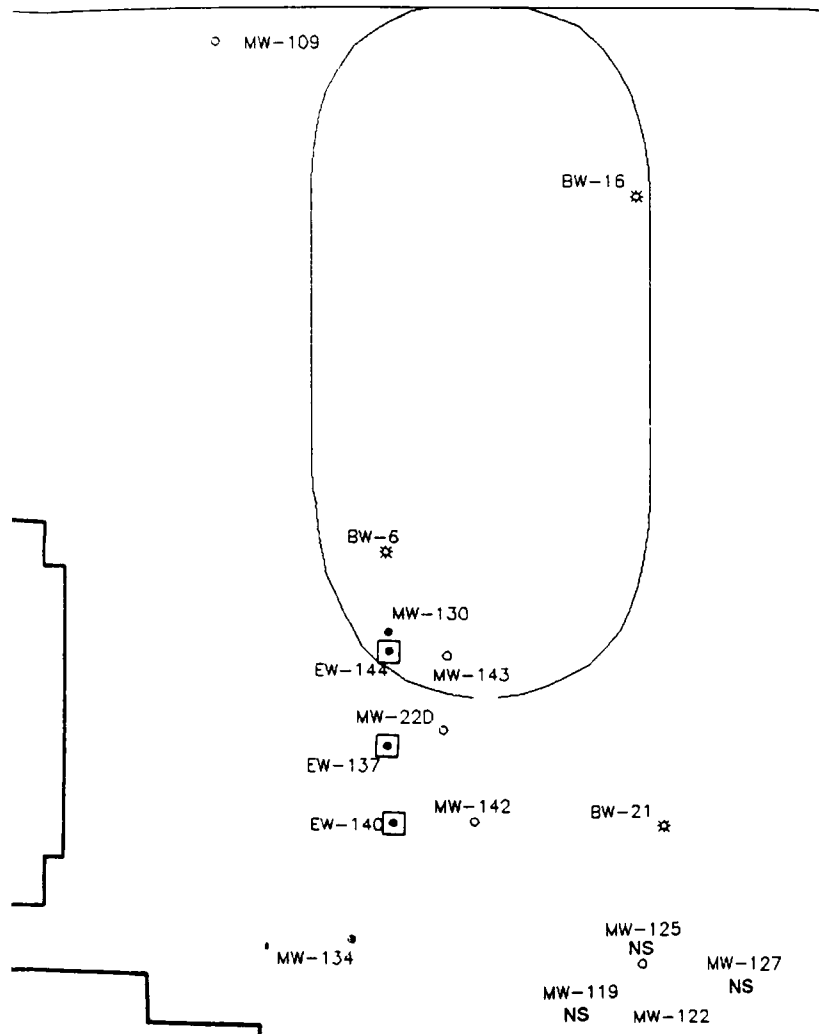
# **HISTORICAL OCCURRENCE OF TCE IN AREA C DEEP "A" MONITORING WELLS**

**MOST R  
IN AREA C**





**MOST RECENT OCCURRENCE OF TCE  
IN AREA C DEEP "A" MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-24.  
Historical & Present  
Occurrence of TCE in  
Deep "A" Zone Monitoring Wells,  
Area C & Adjacent On-Base Areas.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◼ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well

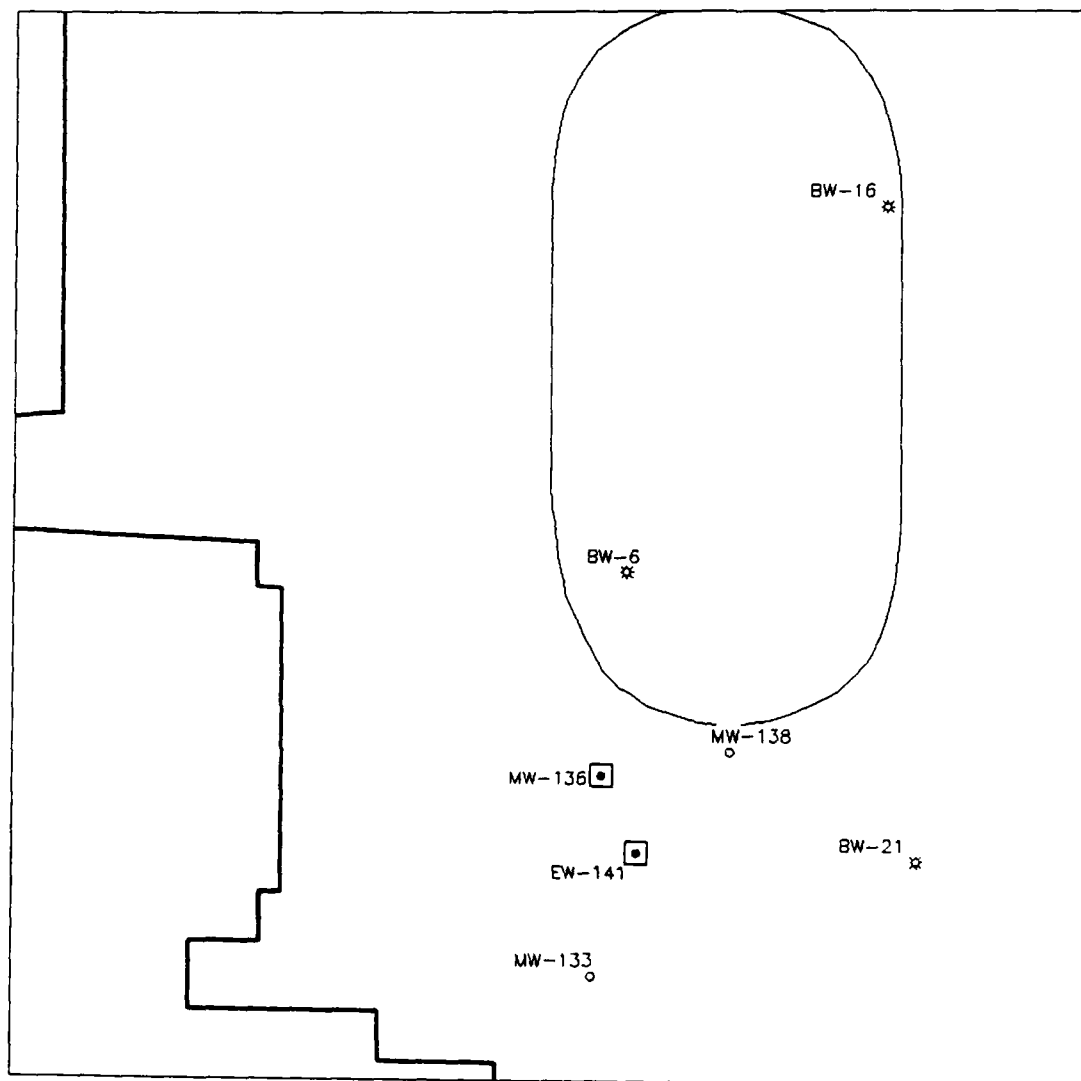


0 500 1000  
SCALE IN FEET

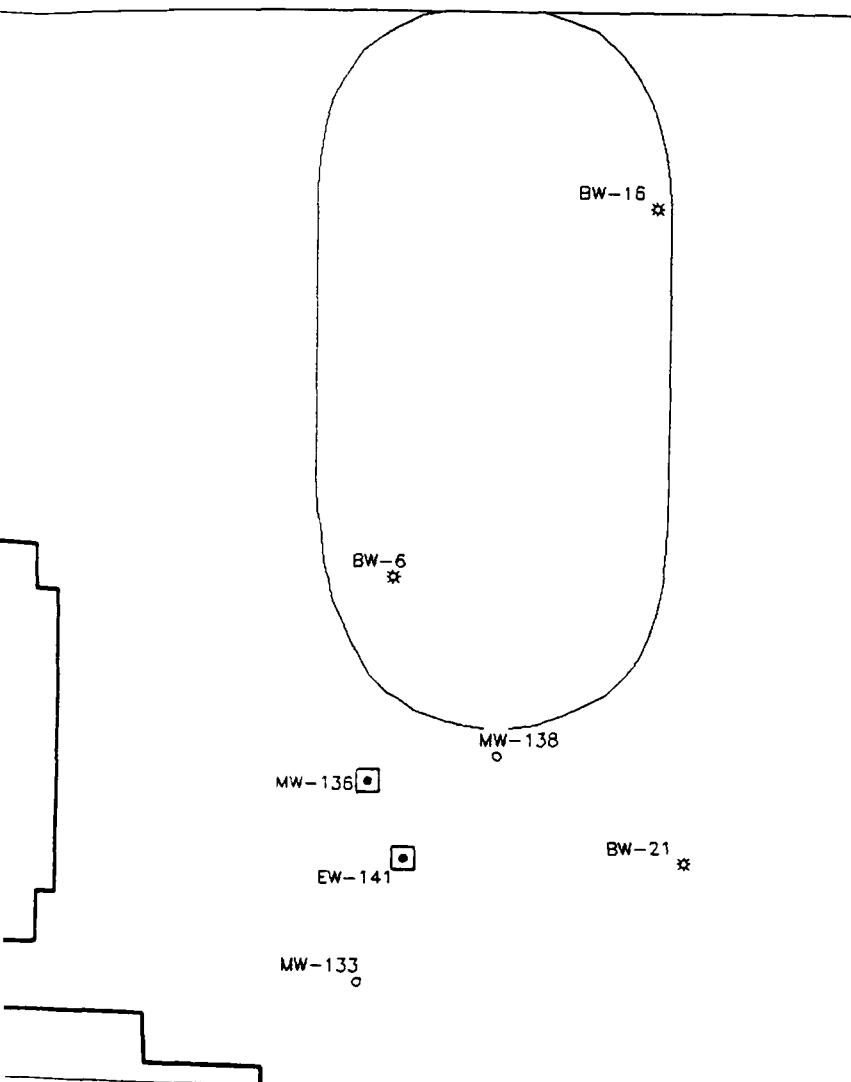
**RADIAN  
CORPORATION**

**HISTORICAL OCCURRENCE OF TCE  
IN AREA C DEEP "B" MONITORING WELLS**

**MOST  
IN AREA**



**MOST RECENT OCCURRENCE OF TCE  
IN AREA C DEEP "B" MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-25.  
Historical & Present  
Occurrence of TCE in  
Deep "B" Zone Monitoring Wells,  
Area C & Adjacent On-Base Areas.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

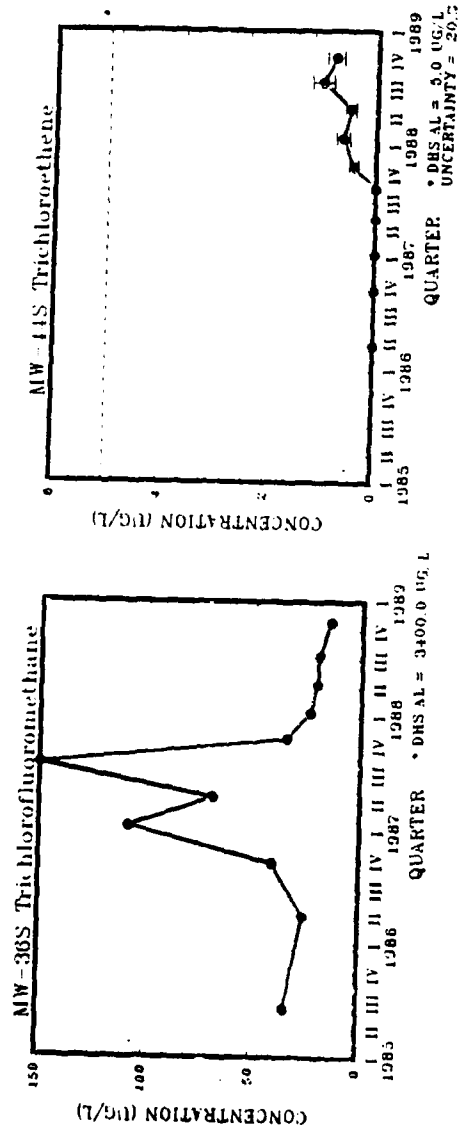
- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 500 1000  
SCALE IN FEET

**RADIAN  
CORPORATION**

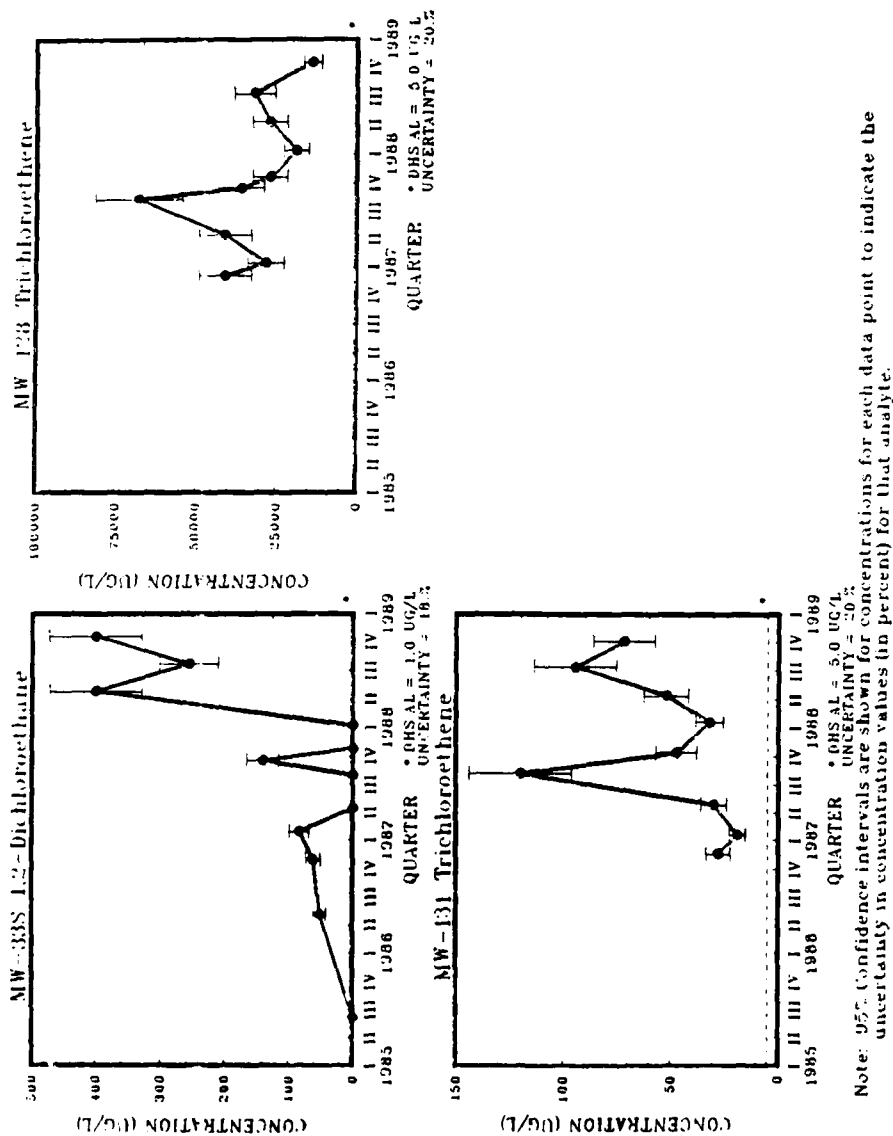
AREA C SHALLOW ZONE WELLS



Note: 95% Confidence intervals are shown for concentrations for each data point to indicate the uncertainty in concentration values (in percent) for that analyte.

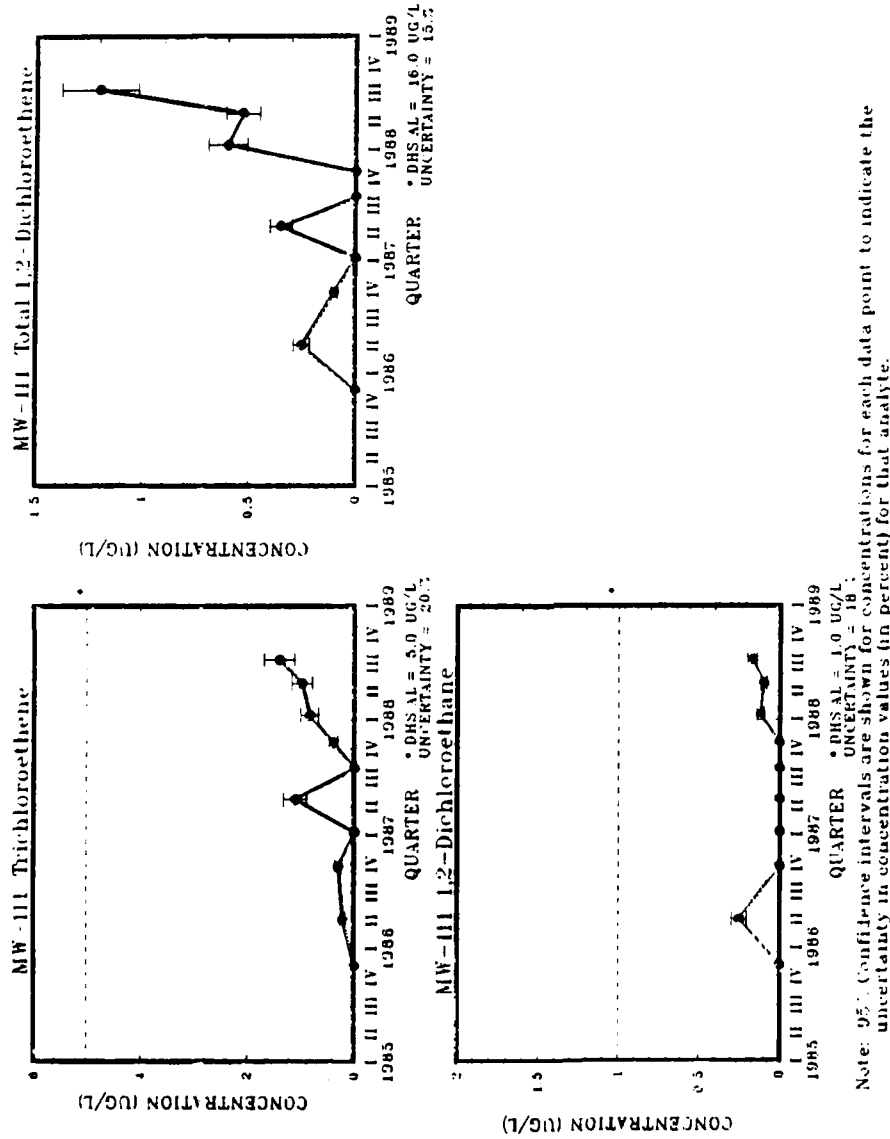
**Figure 3-26. Time Series Plots for MW-36S and MW-44S  
(Area C and Adjacent On-Base Areas).**

# AREA C SHALLOW ZONE WELLS



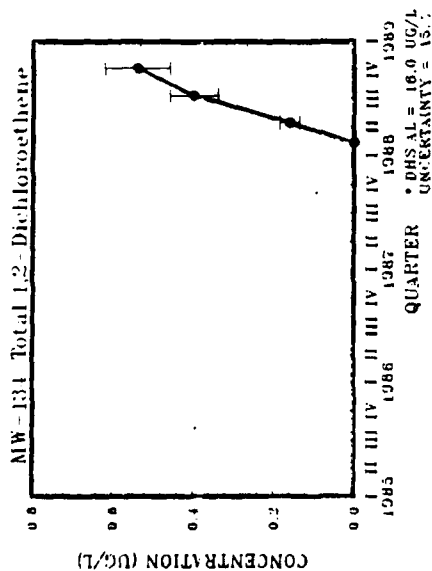
**Figure 3-27. Time Series Plots for MW-33S, MW-128 and MW-131 (Area C and Adjacent On-Base Areas).**

AREA C SHALLOW ZONE WELLS



**Figure 3-28. Time Series Plots for MW-111  
(Area C and Adjacent On-Base Areas).**

# AREA C DEEP ZONE WELLS



Note: 95% Confidence intervals are shown for concentrations for each data point to indicate the uncertainty in concentration values (in percent) for that analyte.

**Figure 3-29. Time Series Plots for MW-134  
(Area C and Adjacent On-Base Areas).**

shows an increasing trend for TCE (Figure 3-26), but concentrations are low (approximately 1 ug/L).

In the southern part of Area C, the shallow zone monitoring wells included in the monitoring program are MW-33S, MW-128, MW-131, MW-61 and MW-139. All of these wells just mentioned, currently contain TCE. Total 1,2-DCE has been detected, in all these wells throughout 1988, except MW-61 in which 1,2-DCE was not detected in October 1988. The only trends detected were an increasing trend for 1,2-DCA in MW-33S, a decreasing trend for TCE in MW-128 and an increasing TCE trend in MW-131 (Figure 3-27). The magnitude of the increase for MW-33S is estimated to be between 0 and 42.5 ug/L per sampling period. The concentrations of TCE in MW-128 vary greatly and thus the estimated change per sampling period has a wide range of -200 to -5500 ug/L. MW-131 has only been sampled nine times but the median increase estimate for TCE is 6.36 ug/L per sampling period.

MW-111 is located west of Area C and shows increasing trends for TCE, total 1,2-DCE and 1,2-DCA (Figure 3-28). The concentrations of these analytes are in the range of less than 2 ug/L and the estimated magnitude of the increases per sampling period are 0.03 to 2.75 ug/L for TCE, 0 to 0.15 ug/L for total 1,2-DCE and 0 to 0.2 ug/L for 1,2-DCA. Yet the trends are statistically verified, even if the visual appearance for 1,2-DCA is subtle. Located in the same cluster is a middle monitoring zone well, MW-113, and a deep zone "A" monitoring well, MW-112. Neither of these wells contain any of the key analytes at detectable concentrations.

There are several deep zone monitoring wells located in Area C that are included in the sampling and analysis program. Statistically significant trends were found for only one monitoring well. A slight decreasing trend for 1,1,1-TCA and a slight increasing trend for total 1,2-DCE is evident for MW-130. However, if the uncertainty associated with each reported concentration is included, these trends are not statistically significant. There are no general patterns to the trends for wells in this part of Area C. The vast



## **RADIAN** CORPORATION

majority of the analytes that have been detected in deep zone monitoring wells show only random fluctuations in the concentrations.

South of Area C, MW-134, a deep "A" zone monitoring well, has an increasing trend for total 1,2-DCE. MW-134 was sampled for the first time in February 1988, and all analytes were reported as not detected for Method 8010. The samples taken since then, however, show detectable concentrations of TCE and total 1,2-DCE. There is an increasing trend for total 1,2-DCE, of approximately 0.19 ug/L per sampling period (Figure 3-29). MW-135 and MW-133 are located in the same well cluster as MW-134 and have been sampled for the same length of time. MW-135, a middle zone well, contains TCE, total 1,2-DCE, chloroform and 1,2-DCA, but no contaminant concentrations show any trends. Contaminants have not been detected in MW-133, which is screened in the deep "B" monitoring zone.

The central section of Area C shows widespread contamination in all groundwater zones, but there were no consistent trends that would indicate contaminant movement in general in Area C. North of this area, MW-44S shows an increasing trend for TCE in the shallow groundwater zone. In the southern section of Area C, MW-134 shows an upward trend for total 1,2-DCE in the deep "A" monitoring zone. West of Area C, MW-111 shows increasing trends for several analytes in the shallow zone.

### 3.3.5 Discussion

The hydrologic and analytical data for Area C monitoring and extraction wells presented above was used to determine groundwater flow rates and apparent movement of contaminants over time. These data are summarized below. The effects of the extraction system in Area C are also reviewed.

Based on the existing hydrologic and analytical data, the following observations and interpretations can be made:

- Groundwater flow appears to be generally to the south, and contaminant migration has followed the groundwater flow path towards Area B;

- The presence of a fine grained zone at -100 feet msl has not prevented downward migration of contaminants. This may be due to the presence of more permeable coarse grained sediments within the fine grain zone, which allows downward transport of contaminants;
- Contamination does generally decrease in extent and concentration with increasing depth; and
- The effect on the Area C extraction system on the groundwater flow regime cannot be evaluated with the existing groundwater monitoring wells.

During the first three quarters of 1988 water level data was available for calculating gradients. After pumping of the extraction system was begun, the configuration of the monitoring wells was not suitable for determining gradients towards pumping wells. Gradients were calculated for the last quarters of 1985 and 1987, and the first three quarters in 1988 in the shallow, middle and deep "A" monitoring zones. Vertical gradients were also calculated for specific well pairs for the fourth quarter 1987 and for the four quarters in 1988.

A range of groundwater flow rates prior to pumping of the extraction system were estimated based on the calculated horizontal gradients from July 1988 water level data, hydraulic conductivity values determined by Radian (1987) and McLaren (1986), and an estimated porosity of 0.20. The hydraulic conductivity values used were 100 and 270 gpd/ft<sup>2</sup>. The calculated groundwater velocities range from 0.06 to 0.36 ft/day. Groundwater velocities after the extraction system began operating cannot be estimated because of the lack of water-level data needed to calculate hydraulic gradients.

There are geophysical data for some of the monitoring and extraction wells in Area C. As seen on the cross section for Area C, two finer-grained zones appear to be fairly continuous at depths of approximately -100 feet msl

and -200 feet msl. These finer-grained zones, however, have not prevented downward migration of contaminants in Area C and south of Area C. As discussed above, contaminants have been detected in the middle, deep "A" and deep "B" monitoring zones. Contamination in the middle and deep monitoring zones appears to be moving along a more narrow plume as compared to the shallow monitoring zone. Contaminants have been detected in monitoring wells screened in all zones directly south of Sites 42 and 22, but contaminants have not been detected in deep "A" zone monitoring wells located southeast of these two sites (MW-143, MW-22D, MW-138, and MW-142). There is contamination of the middle and deep "A" monitoring zone extending as far south as well cluster MW-135/MW-134/MW-133. Trichloroethene has been detected in one of the four deep "B" zone monitoring wells (MW-136) and in EW-141.

The analytical data collected from the groundwater samples in Area C indicate that there is a wider extent of contamination in the shallow monitoring zone than the other monitoring zones. Shallow zone monitoring wells west of Area C (MW-114) and southeast of Area C (MW-61) have consistently shown detectable concentrations of contaminants.

There is no consistent increasing or decreasing trends in any of the monitoring zones to indicate general contaminant movement. There does appear to be increasing contamination south of Area C over the past year in the deep "A" monitoring zone based on the results of the trend analysis for total 1,2-DCE concentrations in MW-134. Most monitoring wells that contained contaminants during the first quarter of 1988 continue to show concentrations of contaminants during the fourth quarter of 1988, although there were only a few concentration trends determined.

#### Area C Extraction System

The extraction system in Area C consists of four extraction wells, two that are screened in the deep "A" zone, one that is screened in both the middle and deep "A" monitoring zones, and one that is screened in the deep "B" zone. The effect of the extraction wells on local flow patterns is not apparent on potentiometric maps from the fourth quarter of 1988. There was

only one sampling event after the startup of the extraction system in 1988 and the effect of pumping on groundwater quality cannot be assessed from one data set.

Potentiometric maps were generated from water level data collected one month after the start up of the extraction system in Area C. The contours on the maps for the shallow and middle monitoring zone do not show any effect due to the extraction. The deep "A" zone potentiometric map shows an indentation of the -38 foot contour in the area of the extraction system. Based on this one set of data, flow does appear to be towards the extraction system. There is a limited number of monitoring wells positioned close to the extraction system to determine the capture zone of the extraction wells.

There are no appropriately located well pairs screened in the same zone as any of the four extraction wells. Therefore, horizontal gradients cannot be calculated for these zones. There is one well pair screened in deep "B" monitoring zone and located radially outward from EW-137 (which is screened in the deep "A" zone). The horizontal gradients calculated indicate a flow potential away from EW-137 before operation of the extraction system began, and a flow potential towards EW-137 after the extraction system startup (Table 3-13).

The potential for downward flow was also calculated prior to and after the extraction system pumping was initiated (Table 3-13). Vertical gradients calculated at two well clusters indicate a downward flow potential from the shallow to the middle, and from the middle to the deep "A" monitoring zones. One well cluster is located near EW-144 (MW-128/MW-129/MW-130). The other well cluster (MW-134/MW-135) is located approximately 800 feet south of EW-140 and EW-141. After the startup of the extraction system there was a significant increase in the downward flow potential between the middle and deep monitoring zones at well cluster MW-128/MW-129/MW-130. There was no change in the vertical gradients between MW-134/MW-135. Because there are no well clusters near the other three extraction wells, the downward flow potential near EW-137, EW-140 and EW-141 cannot be calculated.

There are analytical data from only one sampling event after pumping of the extraction system was begun. Analytical data collected prior to August 1988 will provide a baseline against which any future changes in water quality can be assessed.

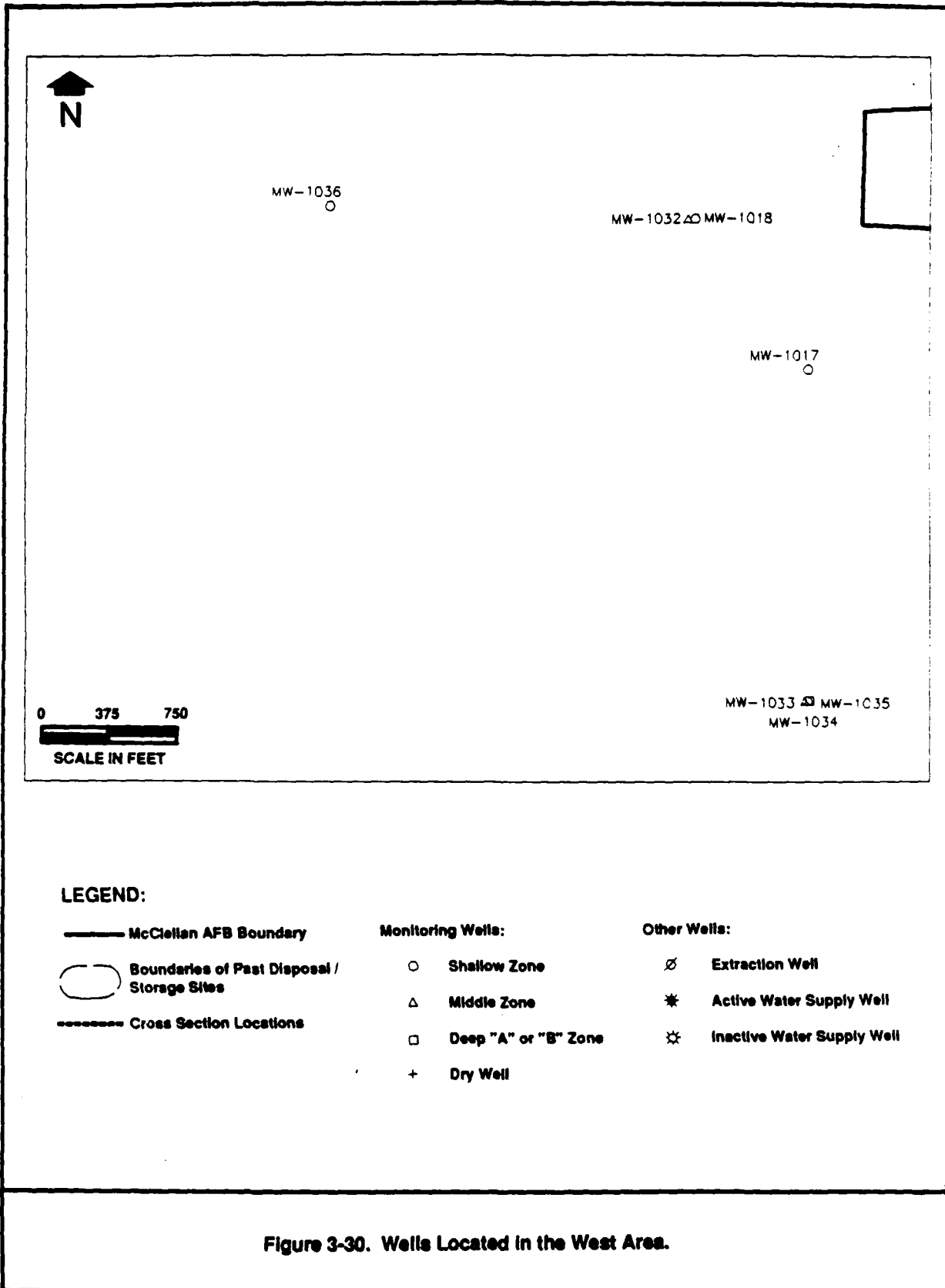
In summary, the regional southerly groundwater flow pattern appears to have transported contaminants south of Area C. There is evidence of both horizontal and vertical contaminant migration south of two identified sources, although contaminant levels are highest in the shallow shallow monitoring zone. The effect of the Area C extraction system cannot be evaluated based on data from the existing groundwater monitoring well configuration and limited analytical results. Additional piezometers to be installed as part of the PGOURI will provide potentiometric data to evaluate the capture zone.

#### 3.4 West Area

The West Area is an off-base area located west of Area C. The boundaries of the West Area extend west from the base boundary to Dry Creek Road, north to approximately Vinci Avenue and south of Grace (Figure 3-1). There are 7 monitoring wells located in the West Area (Figure 3-30). Four monitoring wells are screened in the shallow monitoring zone, 2 are screened in the middle monitoring zone and 1 is screened in the deep monitoring zone. Table 3-15 summarizes information on the wells located in the West Area.

##### 3.4.1 Potential Sources of Groundwater Contamination

The potential sources of the contaminants may be located on base or there may be other unknown sources. Groundwater flow patterns in the past changed with certain seasons. During high demand times of irrigation (summer months), flow directions were from the east to the west (off base). Otherwise, they were to the south. More recently, flow patterns show a consistent south to southeasterly flow path.



**RADIAN  
CORPORATION**

TABLE 3-15. MONITORING WELLS IN THE WEST AREA

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells	Total Number of Wells
Shallow	MW-1017 MW-1018 <sup>a</sup> MW-1033 MW-1036 <sup>a</sup>	None	None	4
Middle	MW-1032 MW-1034	None	None	2
Deep	MW-1035	None	None	1
Total Numbers of Wells	7	0	0	

<sup>a</sup> Samples collected from this well have contained TCE.

3.4.2 Hydrogeologic Data

There are some hydrogeologic data for the West Area, but because the contamination problem is of limited extent, there has not been an emphasis on obtaining data for this area. The lithologic logs for the existing monitoring wells have been described in general terms and are not very reliable. Gradients have been calculated from water level data for Fourth Quarter 1987 and for Fourth Quarter 1988. As shown in Table 3-16 horizontal gradients have increased over the past year but vertical gradients have not increased.

3.4.3 Horizontal and Vertical Distribution

There is no evidence of widespread groundwater contamination in the West Area. Results of sampling of private residential wells and subsequent sampling of monitoring wells show low levels of contamination, less than 2.0 ug/L (Table 3-17).

Trichloroethene has been detected in two of the seven monitoring wells located in the West Area, MW-1018 and MW-1036. TCE concentrations in these two shallow zone monitoring wells have been less than 2.0 ug/L (Figure 3-31). Tetrachlorethene was once detected in October 1987 at a level of 0.20 ug/L in MW-1034, a middle zone monitoring well. Trichloroethene has not been detected in any middle or deep zone monitoring wells in this area (Figures 3-32 and 3-33).

3.4.4 Trend Analysis

Trend analysis data for monitoring wells in the West Area are limited because contaminants have not been detected in monitoring wells or have been inconsistently detected. A decreasing trend for TCE concentration is observed in MW-1036 (Figure 3-34). The concentrations are less than 2.0 ug/L and the median estimate of the change per time period is -0.09 ug/L. Total-1,2-DCE is also present in this well but shows no trend.



TABLE 3-16. HORIZONTAL AND VERTICAL GRADIENTS FOR SELECTED MONITORING WELLS  
 LOCATED IN THE WEST AREA

Well Pair	Monitoring Zone	Distance (feet)	Head Difference Feet		Gradient	
			4Q 1987	4Q 1988	4Q 1987	4Q 1988
<u>Horizontal</u>						
MW-1018/MW-1033	Shallow	2725	3.61	3.34	7.0 ft/mile	6.7 ft/mile
MW-1032/MW-1034	Middle	2725	3.16	3.09	6.1 ft/mile	6.0 ft/mile
<u>Vertical</u>						
MW-1033/MW-1034	Shallow/ Middle	52.5	0.30	0.37	-0.01 ft/ft	-0.01 ft/ft
MW-1034/MW-1035	Middle/ Deep	59.6	0.57	0.60	-0.01 ft/ft	-0.01 ft/ft

Note: Negative (-) gradient indicates downward flow potential.

TABLE 3-17. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES<sup>a</sup> IN MONITORING WELLS LOCATED IN THE WEST AREA FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/L			
Shallow	1,1-Dichloroethane	0.35	0.35
	Total 1,2-Dichloroethene	0.11	0.62
	Chloroform	0.1	0.17
	1,2-Dichloroethane	0.12	0.14
	Trichloroethene	0.25	1.7
Middle	Tetrachloroethene	0.20	0.20
Deep	No Key Analytes were detected in this zone		

<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

NE - Not established.  
 Units are ug/L.

**HISTORICAL OCCURRENCE OF TCE  
IN WEST AREA SHALLOW MONITORING WELLS**

MW-1036  
●

MW-1018  
●

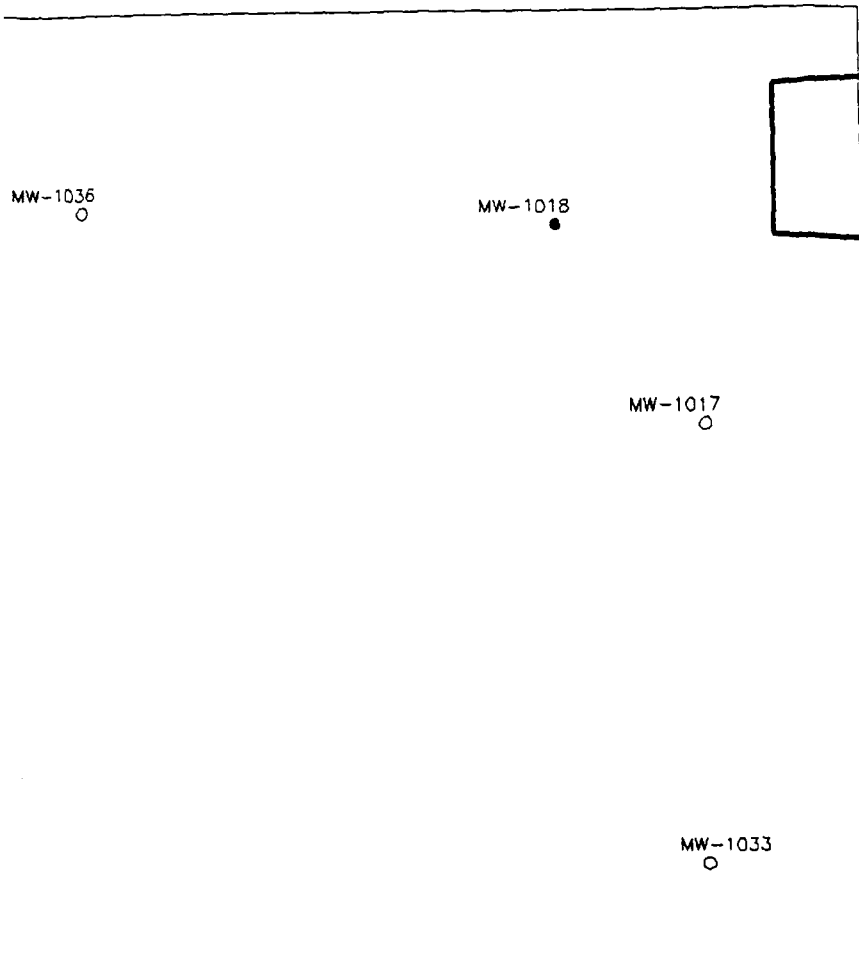
MW-1017  
○

MW-1033  
○

**MOST REC  
IN WEST AREA**

MW-1036  
○

**MOST RECENT OCCURRENCE OF TCE  
IN WEST AREA SHALLOW MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-31.  
Historical & Present  
Occurrence of TCE in  
Shallow Zone Monitoring Wells,  
West Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 375 750  
SCALE IN FEET

**RADIAN  
CORPORATION**

**HISTORICAL OCCURRENCE OF TCE  
IN WEST AREA MIDDLE MONITORING WELLS**

**MOST RECENT  
IN WEST AREA**

MW-1032  
○

○ MW-1034

**MOST RECENT OCCURRENCE OF TCE  
IN WEST AREA MIDDLE MONITORING WELLS  
(OCTOBER 1988)**

MW-1032  
○

○ MW-1034

**Figure 3-32.  
Historical & Present  
Occurrence of TCE in  
Middle Zone Monitoring Wells,  
West Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◼ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 375 750  
SCALE IN FEET

**RADIAN  
CORPORATION**

**HISTORICAL OCCURRENCE OF TCE  
IN WEST AREA DEEP "A" MONITORING WELLS**

**MOST RECENT  
IN WEST AREA**

○  
MW-1035

MOST RECENT OCCURRENCE OF TCE  
IN WEST AREA DEEP "A" MONITORING WELLS  
(OCTOBER 1988)

○  
MW-1035

Figure 3-33.  
Historical & Present  
Occurrence of TCE in  
Deep "A" Zone Monitoring Wells,  
West Area.

LEGEND:

- McClellan AFB Boundary
- Boundaries of Past Disposal /  
Storage Sites

MONITORING WELLS

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

OTHER WELLS

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District  
Water Supply Well
- RW Rio Linda Water District  
Water Supply Well
- AW Arcade Water District  
Water Supply Well
- CT CalTrans Irrigation Well

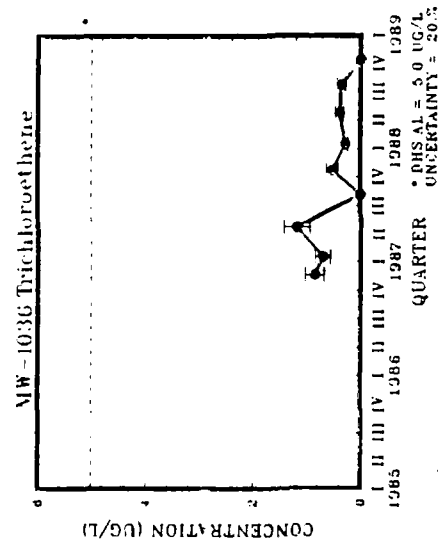


0 375 750  
SCALE IN FEET

**RADIAN**  
CORPORATION



WEST AREA SHALLOW ZONE WELLS



Note: 95% Confidence intervals are shown for concentrations for each data point to indicate the uncertainty in concentration values (in percent) for that analyte.

Figure 3-34. Time Series Plots for MW-1036 (West Area).

#### 3.4.5 Discussion

Low concentrations of contaminants have been detected in two shallow zone monitoring wells in the West Area. Contaminant levels are expected to remain low or decrease because groundwater flow is from the West Area towards the base, and most identified potential sources are on-base. An increase in contaminants detected in monitoring wells located in the West Area may indicate an off-base source.

#### 3.5 Area D and Adjacent On-Base Areas and the Northwest Area

Area D is located in the northwestern portion of the base (Figure 3-1). The outer boundary of Area D was determined by CH2M Hill based on historic waste generation and disposal activities identified during record searches conducted in 1981. Potential release locations located outside of the Area D boundary are referred to as "Adjacent On-Base Areas and the Northwest Area." The Northwest Area is the area immediately off-base, due west of Area D (Figure 3-1).

Industrial activities have occurred in Area D since the late 1940s. Past operations have included burial and burning of waste solvents, disposal of industrial sludge, burial of aircraft engine sodium valves, and burial of general refuse and debris.

Groundwater contamination was first detected in the northwestern part of the base in 1979. On and off-base sampling at that time identified three areas of TCE contamination, one of which was later named Area D. In 1981, CH2M Hill completed the IRP Phase I records search which identified past disposal sites in Area D and ranked them in order of priority to be remediated. In 1983 Engineering Science completed the IRP Phase I confirmation of the existence and extent of groundwater contamination in Area D. In 1984 CH2M Hill completed the site characterization study of Area D and made recommendations for a containment system. In 1986 McLaren Engineering completed

construction and testing of the Area D Extraction System. The system has been on-line since March 1987 and appears to be effectively preventing groundwater flow and contaminant migration away from Area D.

There are 28 monitoring wells and 6 extraction wells located in Area D and Adjacent On-Base areas. Of the monitoring wells, 22 are currently included in the McClellan AFB groundwater monitoring network. There are 22 monitoring wells located in the Northwest Area, and of these, 19 are currently included in the monitoring well network. The locations of these wells are shown in Figures 3-35 and 3-36.

#### 3.5.1 Potential Sources of Groundwater Contamination

There are 10 Confirmed Sites, 2 PSPRLs, and 1 UPRL located in Area D and Adjacent On-Base Areas. Appendix A-4 summarizes the types of contaminants that have been confirmed or are suspected to have been used, stored and/or disposed at each location. Descriptions presented in Appendix A-4 are based on information provided by previous USAF contractors (CH2M Hill, 1981; McLaren, 1986) and the McClellan AFB Office of Environmental Management.

#### 3.5.2 Hydrogeologic Data

Soils in the vicinity of Area D are classified as sand, silty sand, and low plasticity silt. Moisture contents vary from 5 to 42 percent, specific gravities range from 2.61 to 2.70, and consistencies vary from moderately dense to very dense. Soils are brown to red-brown in color, and hardpan is present at a depth of approximately 4 feet in many parts of Area D, especially east of the former Magpie Creek Channel (CH2M Hill, 1985). According to the USDA (1986), soils in the southeast portion of Area D are classified as San Joaquin Fine Sandy Loam and in the northwest portion as Xeralific Arents. These were described in Section 3.2.2.

The geologic section beneath Area D is depicted in Figure 3-37 and the surface trace of the cross section is shown on Figure 3-35. The section

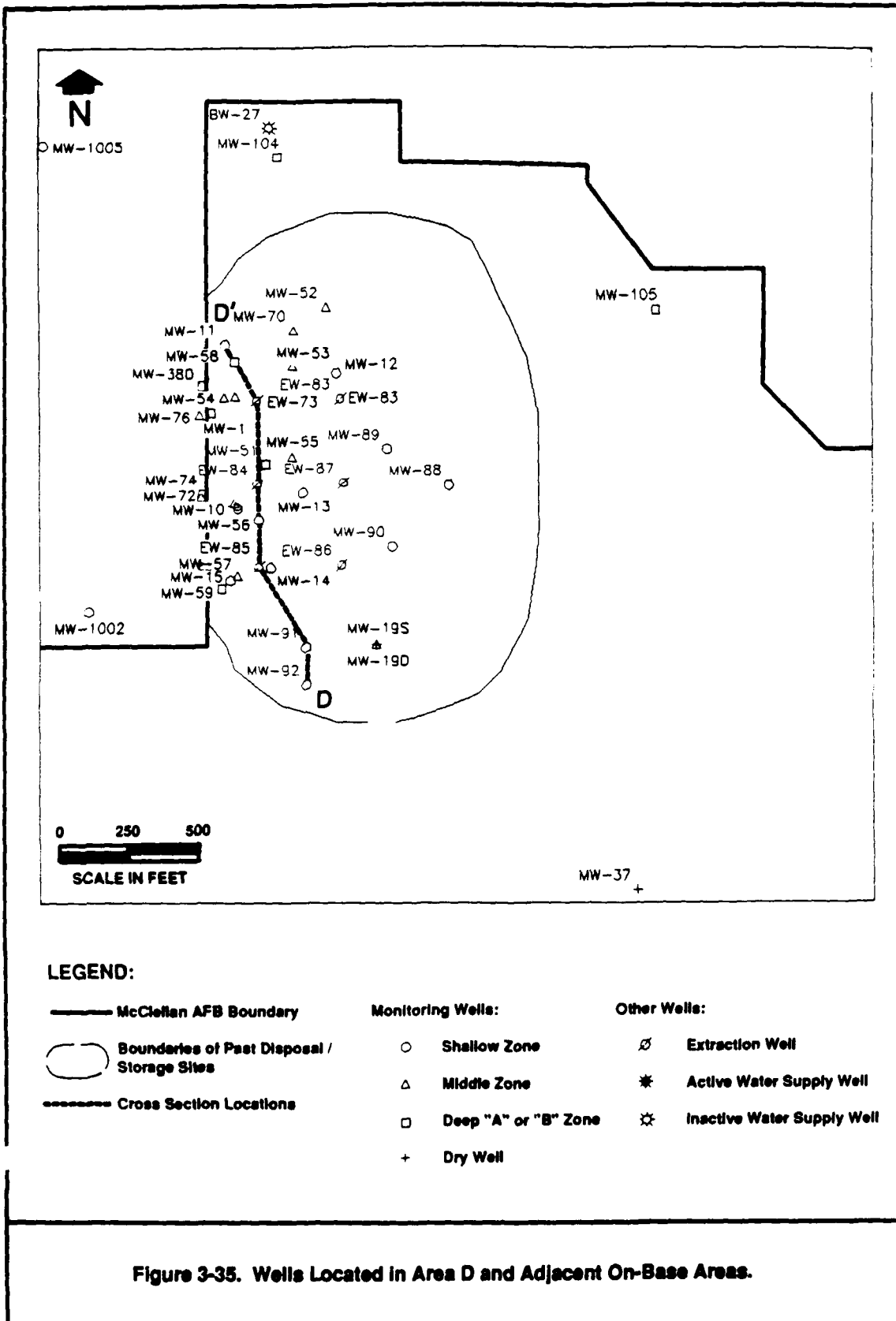
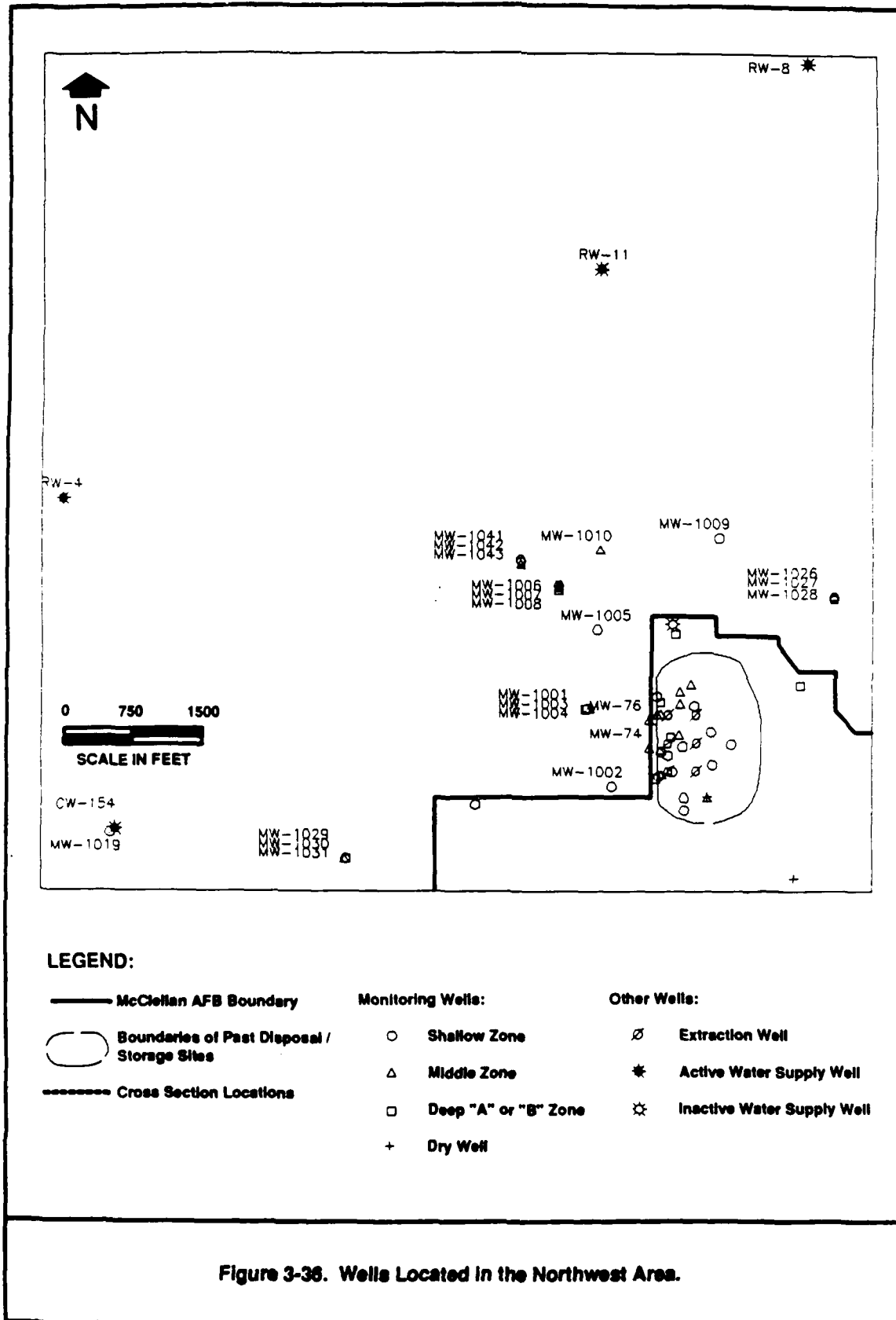
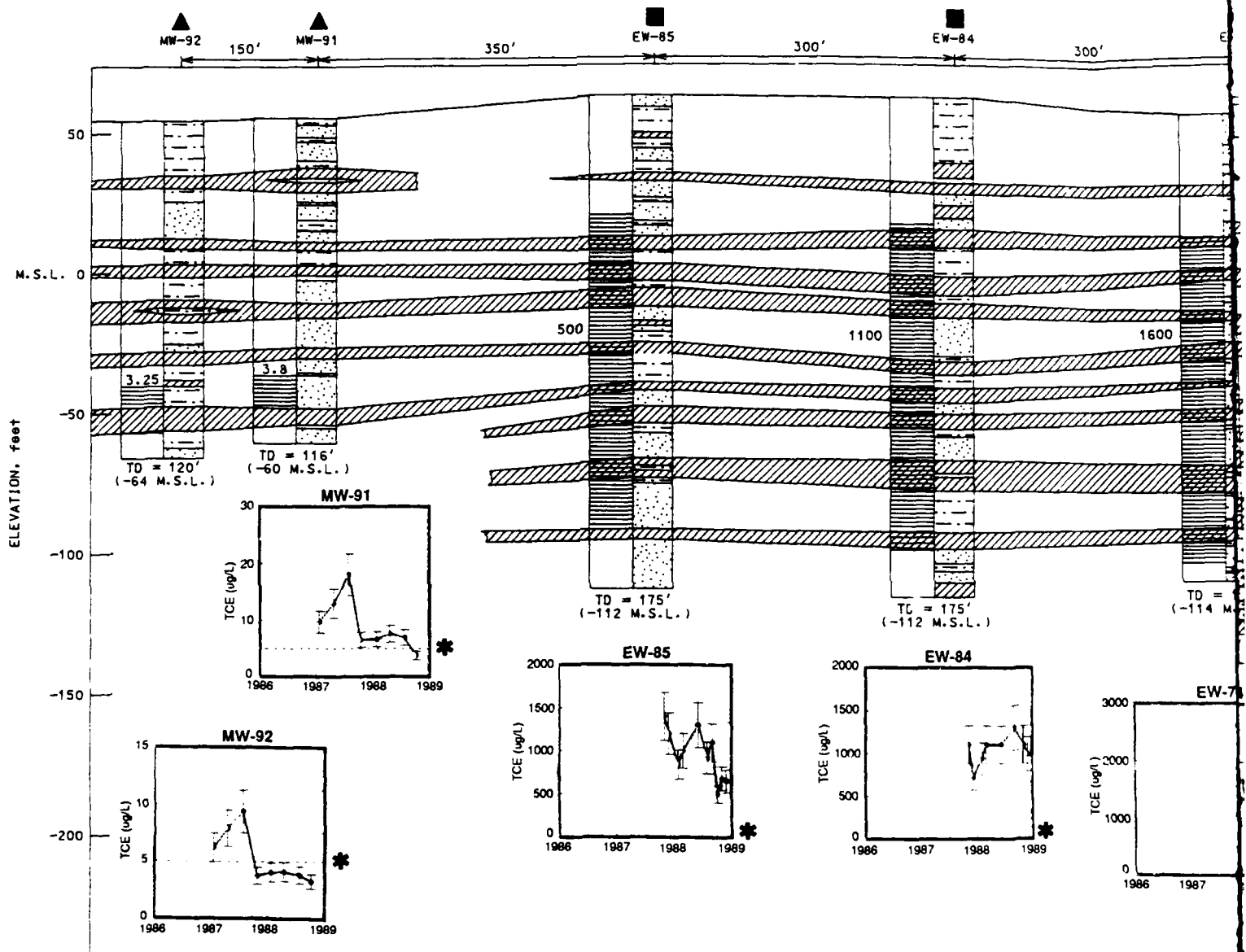


Figure 3-35. Wells Located in Area D and Adjacent On-Base Areas.



D  
SOUTH



\* DHS and EPA Action Levels equal to 5 $\mu\text{g/L}$

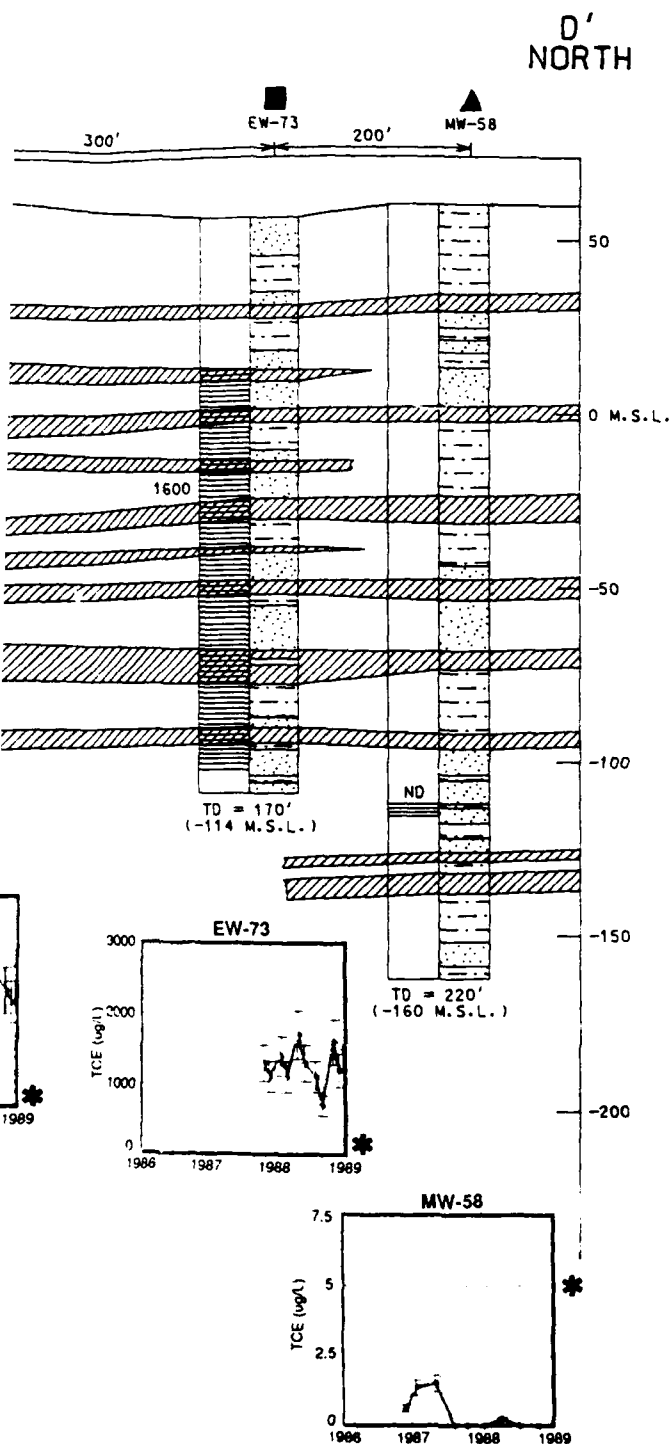


Figure 3-37.  
Subsurface Profile, Area D

## LEGEND

- ▲ MONITORING WELL (MW)
- EXTRACTION WELL (EW)
- ☼ BASE PRODUCTION WELL (BW)
- M.S.L. MEAN SEA LEVEL
- TD TOTAL DEPTH

- SAND
- SILT
- CLAYEY SILT
- NO DATA
- SCREEN INTERVAL

## SCALE

HS: 1" = 390'  
VS: 1" = 54'  
VE = 7.2

NOTE: TCE CONCENTRATIONS ARE REPORTED NEXT TO SCREEN INTERVALS  
IN ug/L FOR OCTOBER THROUGH DECEMBER, 1988 SAMPLING PERIOD.  
ND = NOT DETECTED

GENERATED BY: Jim Neumann 7-20-89  
PROJECT REVIEW: Mary McQuish 7-21-89  
PEER REVIEW: John P. Thompson 7-21-89

**RADIAN**  
CORPORATION

traverses Area D from north to south and includes three of the six wells in the Area D Extraction System. The strata appear nearly flat lying with gentle south dip on the southern end of the section. This section runs approximately perpendicular to the northeast-southwest trending paleo stream channels tentatively identified in the subsurface of this area.

As shown in Figure 3-37, the geologic section consists of alternating sands, silts, and clayey silts of the Victor, Fair Oaks, and Laguna formations. No wells in Area D have yet been drilled deep enough to penetrate the Mehrten Formation. The subsurface stratigraphy beneath Area D appears distinct from that of Areas A, B, and C. The fine-grained zone which occurs from approximately -40 to -100 feet msl in Areas A, B, and C seems to be absent in Area D. In addition, more of the clayey silts appear to be locally correlative and persist in a laterally continuous manner. Based on this interpretation, some of the Area D subsurface sediments are expected to have less variation in texture, porosity, and hydraulic conductivity than sediments in Area A, B, and C.

There are 50 monitoring wells in Area D, Adjacent On-Base Areas, and in the Northwest Area. Forty-two are network wells and 8 are non-network wells. Of these, 22 wells are screened in the shallow monitoring zone, 17 in the middle zone, and 11 in the deep zone. Water levels were measured in 42 of these wells on a monthly basis from January through September 1988, at which time measurement frequency was switched to quarterly. The eight wells in which water levels were not measured are non-network wells with extensive gravel packs or screen intervals in more than one monitoring zone. (Tables 3-18 and 3-19).

Potentiometric surface maps produced from water levels measured on 29 and 30 September 1988 for the shallow, middle, and deep monitoring zones are shown on Plates 2, 3 and 4. These maps clearly show the influence of the Area D extraction system. In the shallow and middle monitoring zones there is a well defined cone of depression indicating a radial flow pattern toward the extraction wells. In the deep zone, data are sparse but suggest that flow is



TABLE 3-18. MONITORING WELLS IN AREA D AND ADJACENT ON-BASE AREAS

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells <sup>a</sup>	Abandoned (Grouted)	Total Number of Wells
Shallow	MW-10 <sup>a</sup>	MW-13 <sup>c</sup>	None	19-S <sup>a</sup>	13
	MW-11 <sup>a</sup>	MW-56			
	MW-12 <sup>a</sup>				
	MW-14 <sup>a</sup>				
	MW-15 <sup>a</sup>				
	MW-88 <sup>b</sup>				
	MW-89 <sup>b</sup>				
	MW-90 <sup>b</sup>				
	MW-91 <sup>a</sup>				
	MW-92 <sup>a</sup>				
Middle	MW-52 <sup>a</sup>	MW-19D <sup>b</sup>	None	None	9
	MW-53 <sup>a</sup>	MW-38D <sup>a</sup>			
	MW-54 <sup>a</sup>				
	MW-55 <sup>a</sup>				
	MW-57 <sup>a</sup>				
	MW-70 <sup>a</sup>				
	MW-72 <sup>a</sup>				
Deep	MW-51	MW-1 <sup>c</sup>	None	None	6
	MW-58 <sup>a</sup>				
	MW-59 <sup>a</sup>				
	MW-104 <sup>b</sup>				
	MW-105 <sup>b</sup>				
Total Number of Wells	22	5	0	1	28

<sup>a</sup> Samples collected from these wells have contained TCE.

<sup>b</sup> Well contained one of the 10 key analytes other than TCE.

<sup>c</sup> Well has been abandoned or destroyed.

TABLE 3-19. MONITORING WELLS IN THE NORTHWEST AREA

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells	Total Number of Wells
Shallow	MW-1002 <sup>a</sup> MW-1004 <sup>a</sup> MW-1005 <sup>a</sup> MW-1009 MW-1019 <sup>a</sup> MW-1026 MW-1029 <sup>a</sup> MW-1041 <sup>a</sup>	MW-1008 <sup>c</sup>	None	9
Middle	MW-74 <sup>a</sup> MW-76 <sup>a</sup> MW-1003 <sup>b</sup> MW-1010 MW-1027 MW-1030 MW-1042 <sup>a</sup>	MW-1007 <sup>c</sup>	None	8
Deep	MW-1001 MW-1028 MW-1031 MW-1043	MW-1006 <sup>c</sup>	None	5
Total Number of Wells	19	3	0	22

<sup>a</sup> Samples collected from these wells have contained TCE.

<sup>b</sup> Well contained one of the 10 key analytes other than TCE.

<sup>c</sup> Well selected for abandonment (destruction).

southeast from off-base to on-base. Prior to operation of the Area D extraction system, groundwater flow, and contaminant migration was to the south-southwest and seasonally to the west-northwest.

In designing the Area D extraction system, McLaren Engineering specified certain well pairs to be used in calculating head differences and horizontal gradients. These well pairs were selected based on availability and their locations relative to the extraction wells. Table 3-20 presents the well pairs, calculated head differences, and gradients. Water-level data from the October through December 1988 Data Summary were used to calculate these parameters.

### 3.5.3 Contaminant Distribution

Fifty monitoring wells located in Area D, Adjacent On-Base Areas, and the Northwest Area have been sampled by Radian or other USAF contractors at least once since 1981. Samples collected from 35 of these wells have contained one of the ten key analytes at a concentration greater than the detection limit. Ranges of detected concentrations from 1985 through 1988 are shown in Tables 3-21 and 3-22.

Within Area D and the Adjacent On-Base Area all shallow zone monitoring wells have contained a detectable concentration of one of the ten key analytes during their sampling history. This is shown in Figure 3-38 which depicts the historical occurrence of TCE as compared to the current occurrence (October through December 1988 sampling period). Monitoring wells MW-88, MW-89, and MW-90, all of which are located on the eastern edge of the Area D wellfield, did not contain TCE during the last sampling period. However, samples from all three wells did contain 1,1-DCE which is one of the ten key analytes. Within the Northwest Area, all shallow zone monitoring wells except two (MW-1009 and MW-1026) have contained detectable concentrations of TCE during their sampling history (Figure 3-39). These two monitoring wells located due north and northeast of Area D have never contained contaminants. Based on known groundwater flow directions in the past, these

TABLE 3-20. HEAD DIFFERENCES AND GRADIENTS OF SELECTED WELL  
PAIRS IN AREA D

Well Pair	Monitoring Zone	Horizontal Distance (feet)	Head Difference (feet)	Gradient (feet/feet)	Gradient (feet/mile)
MW-54/MW-76	Middle	144	0.83	0.006	30.43
MW-72/MW-74	Middle	122	0.32	0.0026	13.85
MW-88/MW-89	Shallow	257	0.97	0.0038	19.87
MW-88/MW-90	Shallow	300	1.46	0.0049	25.64
MW-91/MW-92	Shallow	132	0.35	0.0027	14.00

TABLE 3-21. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES <sup>a</sup>  
 IN MONITORING WELLS LOCATED IN AREA D AND ADJACENT ON-BASE AREAS  
 FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/L			
Shallow	Vinyl chloride	1.4	400
	1,1-Dichloroethene	0.21	64300
	1,1-Dichloroethane	0.19	3560
	Total 1,2-Dichloroethene	0.12	460
	Chloroform	1.6	2320
	1,2-Dichloroethane	5.6	2790
	1,1,1-Trichloroethane	0.17	22800
	Trichloroethene	2.6	26600
	Tetrachloroethene	2.4	2480
Middle	Vinyl chloride	0.34	2230
	1,1-Dichloroethene	0.25	11500
	1,1-Dichloroethane	0.39	4430
	Total 1,2-Dichloroethene	0.62	7020
	Chloroform	0.57	3.2
	1,2-Dichloroethane	0.16	300
	1,1,1-Trichloroethane	0.22	1870
	Trichloroethene	0.32	1200
	Tetrachloroethene	0.16	260
Deep	Vinyl chloride	1.3	1.3
	1,1-Dichloroethene	0.14	270
	1,1-Dichloroethane	0.13	2.0
	Total 1,2-Dichloroethene	0.15	2.6
	Chloroform	0.85	0.85
	1,1,1-Trichloroethane	0.21	19
	Trichloroethene	0.23	290
	Tetrachloroethene	0.10	0.10

<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

NE - not established.

All unit are ug/L.

TABLE 3-22. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES <sup>a</sup>  
 IN MONITORING WELLS LOCATED IN THE NORTHWEST AREA  
 FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/L			
Shallow	Vinyl chloride	0.41	0.43
	1,1-Dichloroethene	0.10	280
	1,1-Dichloroethane	0.4	41
	Total 1,2-Dichloroethene	0.1	43
	Chloroform	0.10	2.8
	1,2-Dichloroethane	0.13	14
	1,1,1-Trichloroethane	0.2	16
	Trichloroethene	0.25	100
	Tetrachloroethene	0.1	1.2
Middle	Vinyl chloride	1.4	1.4
	1,1-Dichloroethene	0.16	200
	1,1-Dichloroethane	0.21	16
	Total 1,2-Dichloroethene	0.24	28
	1,2-Dichloroethane	0.20	1.4
	1,1,1-Trichloroethane	0.61	0.61
	Carbon tetrachloride	0.2	0.2
	Trichloroethene	0.41	8.3
	Tetrachloroethene	0.14	0.14
Deep	No Key Analytes were detected in this zone		

<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

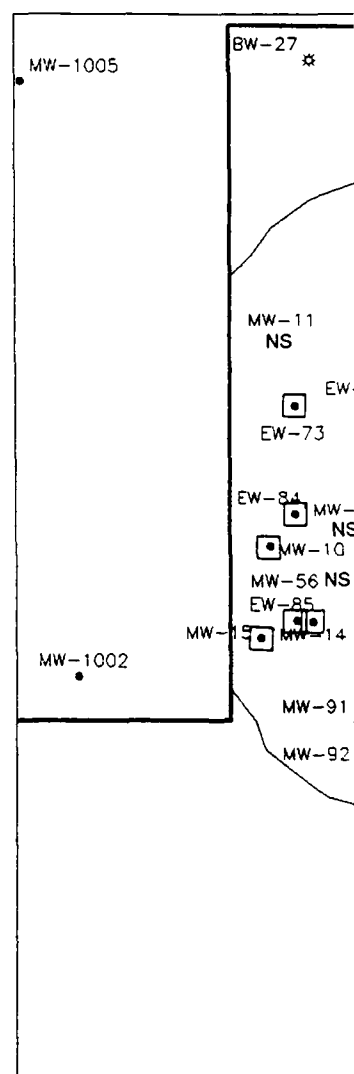
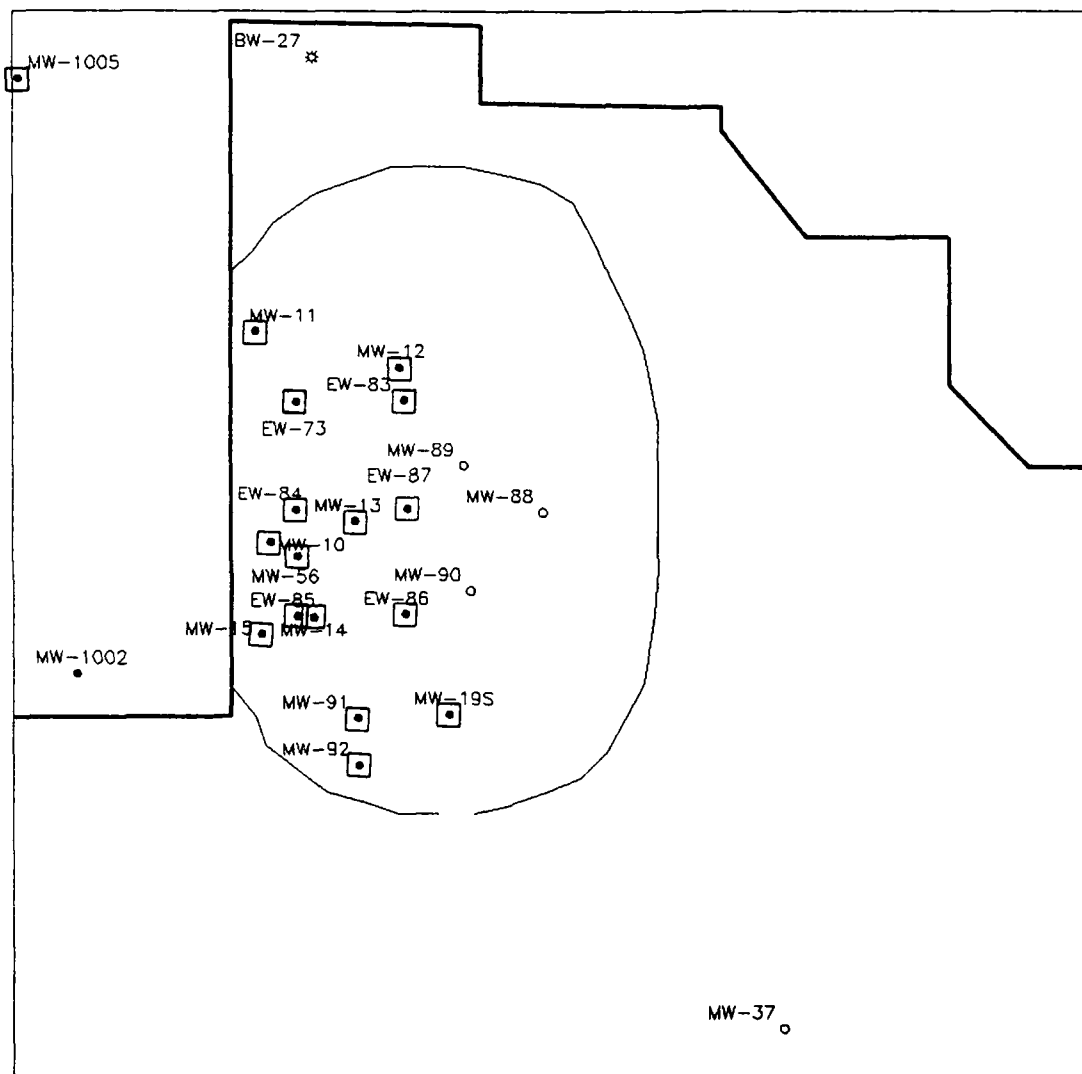
Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

NE - not established.

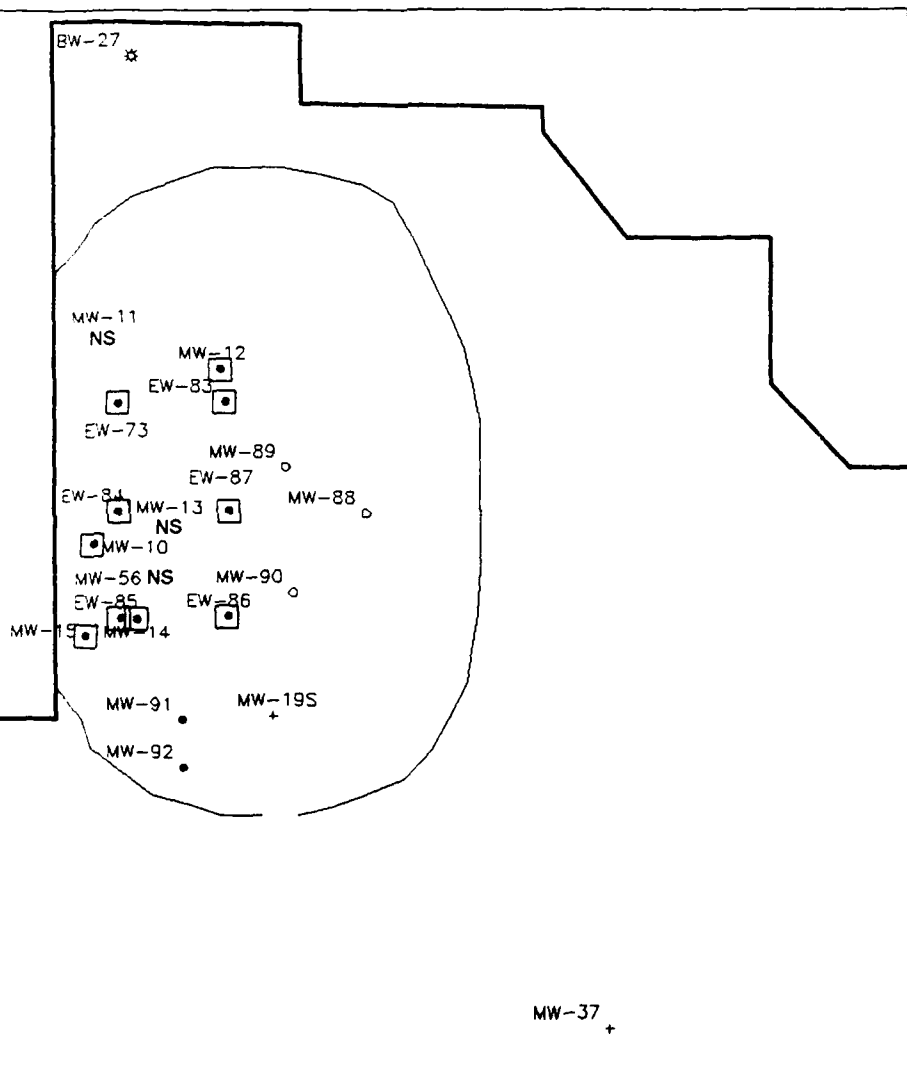
All unit are ug/L.

# HISTORICAL OCCURRENCE OF TCE IN AREA D SHALLOW MONITORING WELLS

MC  
IN AF



**MOST RECENT OCCURRENCE OF TCE  
IN AREA D SHALLOW MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-38.  
Historical & Present  
Occurrence of TCE in  
Shallow Zone Monitoring Wells,  
Area D & Adjacent On-Base Areas.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



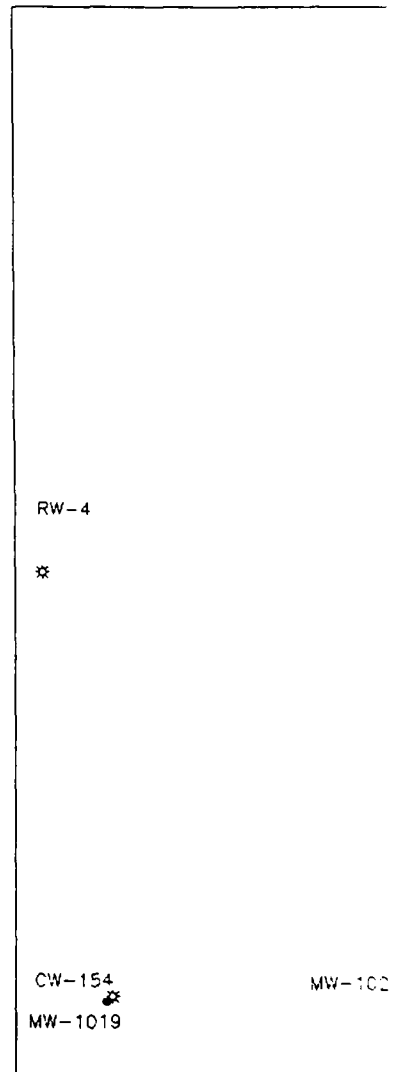
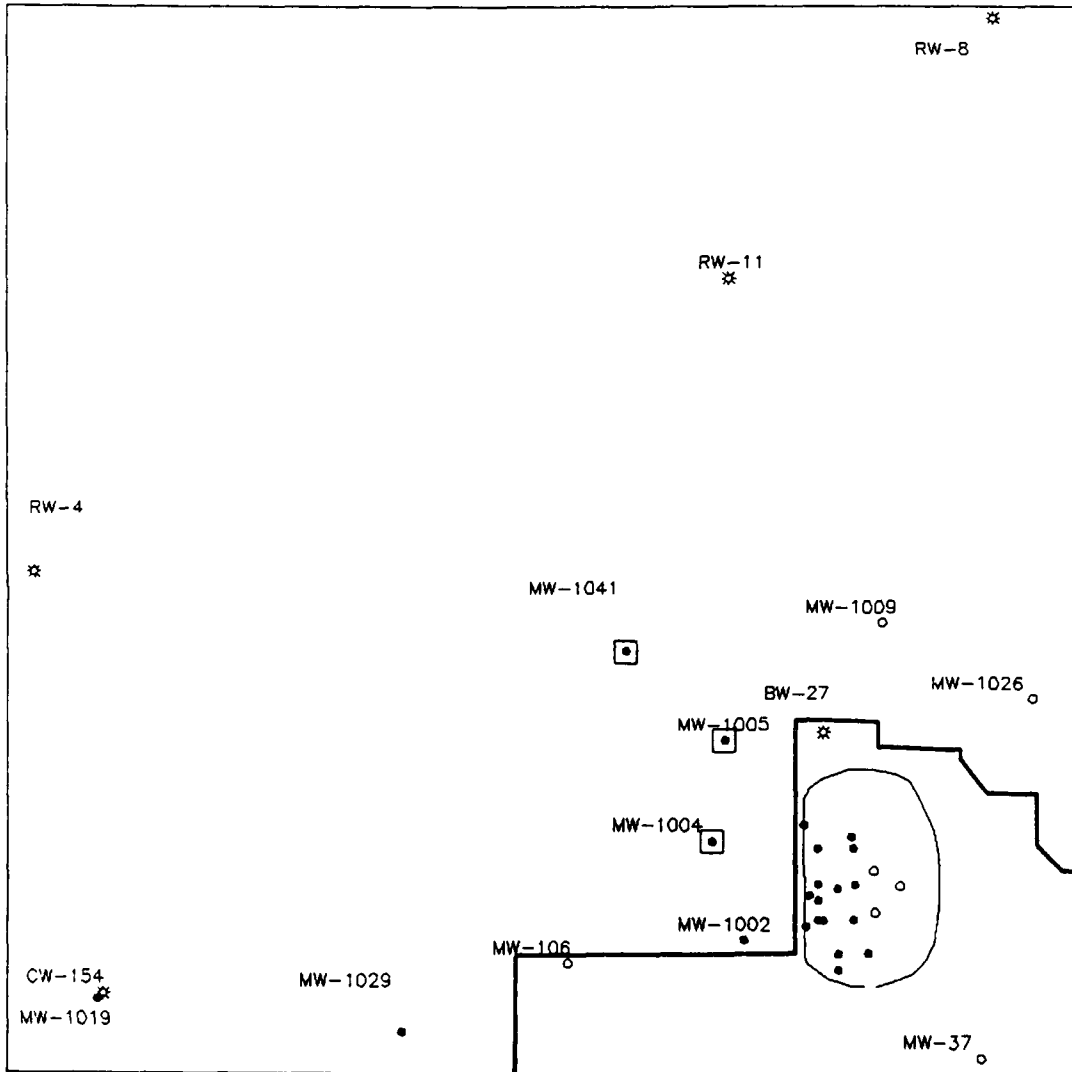
0 250 500  
SCALE IN FEET

**RADIAN  
CORPORATION**

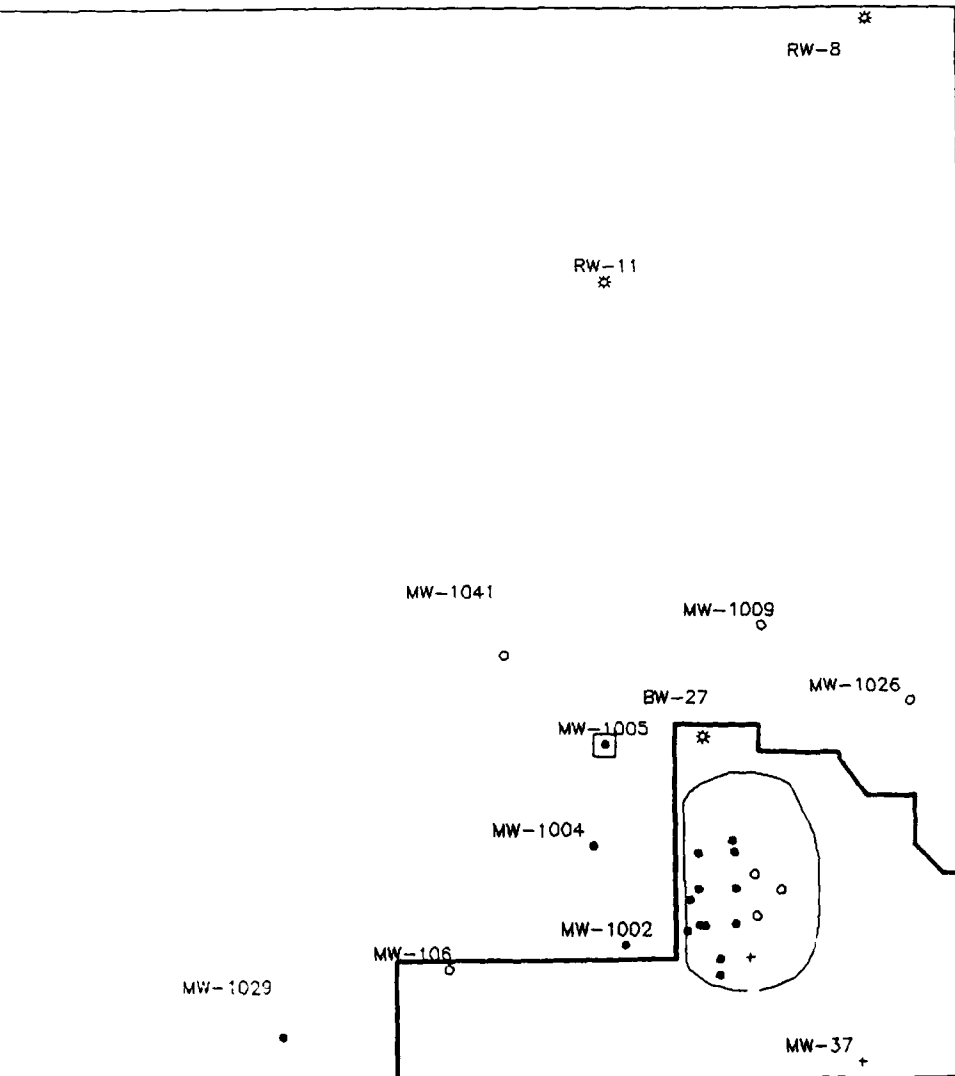


**HISTORICAL OCCURRENCE OF TCE  
IN NORTHWEST AREA SHALLOW MONITORING WELLS**

**MOST  
IN NORTHWEST**



**MOST RECENT OCCURRENCE OF TCE  
IN NORTHWEST AREA SHALLOW MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-39.  
Historical & Present  
Occurrence of TCE in  
Shallow Zone Monitoring Wells,  
Northwest Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 750 1500  
SCALE IN FEET

**RADIAN  
CORPORATION**

wells have always been located upgradient of confirmed sources in Area D. Figure 3-39 shows that in the Northwest Area samples from one additional well, MW-1041, no longer contain TCE.

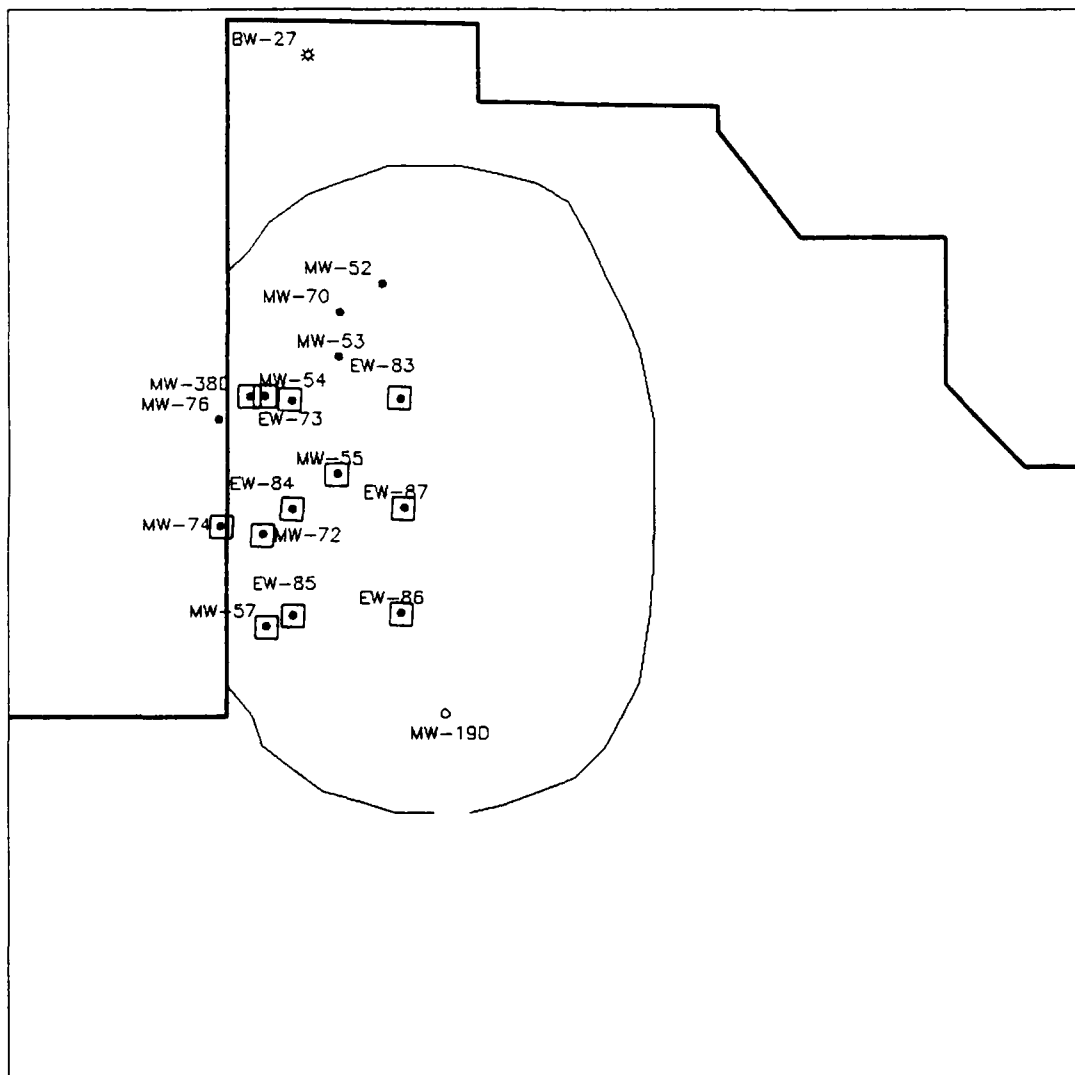
Within Area D and the Adjacent On-Base Areas all middle zone monitoring wells have also contained detectable concentrations of one of the 10 key analytes during their sampling history. Figure 3-40 compares the historical to current occurrence of TCE for these wells. MW-19D, located on the southeast edge of the Area D wellfield has never contained TCE but did once contain 0.25 ug/l of 1,1-DCE in April 1988. Within the Northwest Area approximately half of the middle zone monitoring wells have contained a detectable concentration of TCE or 1,1-DCE (MW-1003) during their sampling history (Figure 3-41).

Within Area D and the Adjacent On-Base Areas approximately two thirds of the deep monitoring zone wells have contained detectable concentrations of contaminants. Figure 3-42 compares the historical to current occurrence of TCE. Samples from MW-105 located approximately 1000 feet northeast of the Area D wellfield, have never contained TCE, but 0.31 ug/L of 1,1,1-TCA was once detected in October of 1987. Within the Northwest Area no samples from deep zone monitoring wells have contained contaminants (Figure 3-43). The highest levels of TCE in the deep monitoring zone were detected in MW-59, the most southerly (downgradient) of the deep zone monitoring wells. Since the operation of the extraction system, TCE concentrations in the deep zone monitoring wells have decreased to below state and federal drinking water standards.

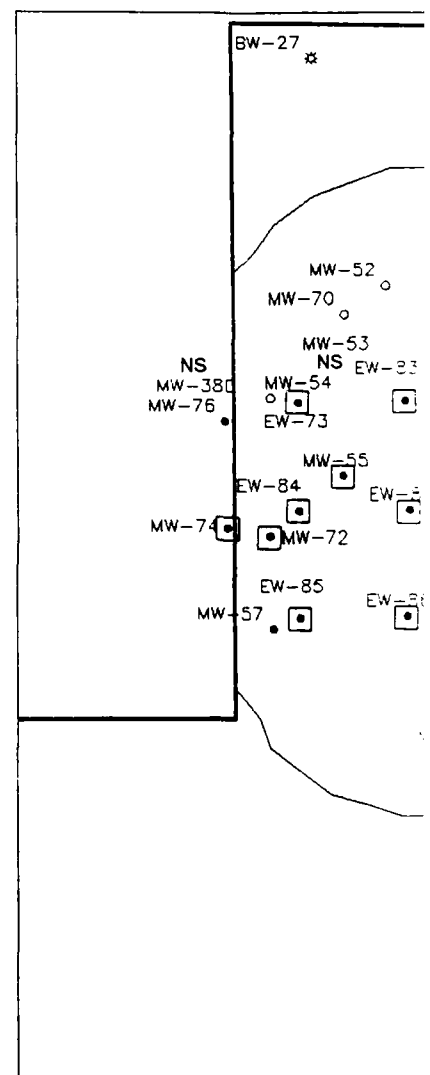
#### 3.5.4 Trend Analysis

Several shallow zone monitoring wells in the vicinity of Area D show significant decreasing trends for a number of analytes during the period that the extraction system has been operational. Within Area D, MW-91 shows a decreasing trend for 1,1-DCE (Figure 3-44). In the Northwest Area MW-1002, MW-1004 and MW-1005 show decreasing trends for a number of analytes (Figures

# **HISTORICAL OCCURRENCE OF TCE IN AREA D MIDDLE MONITORING WELLS**

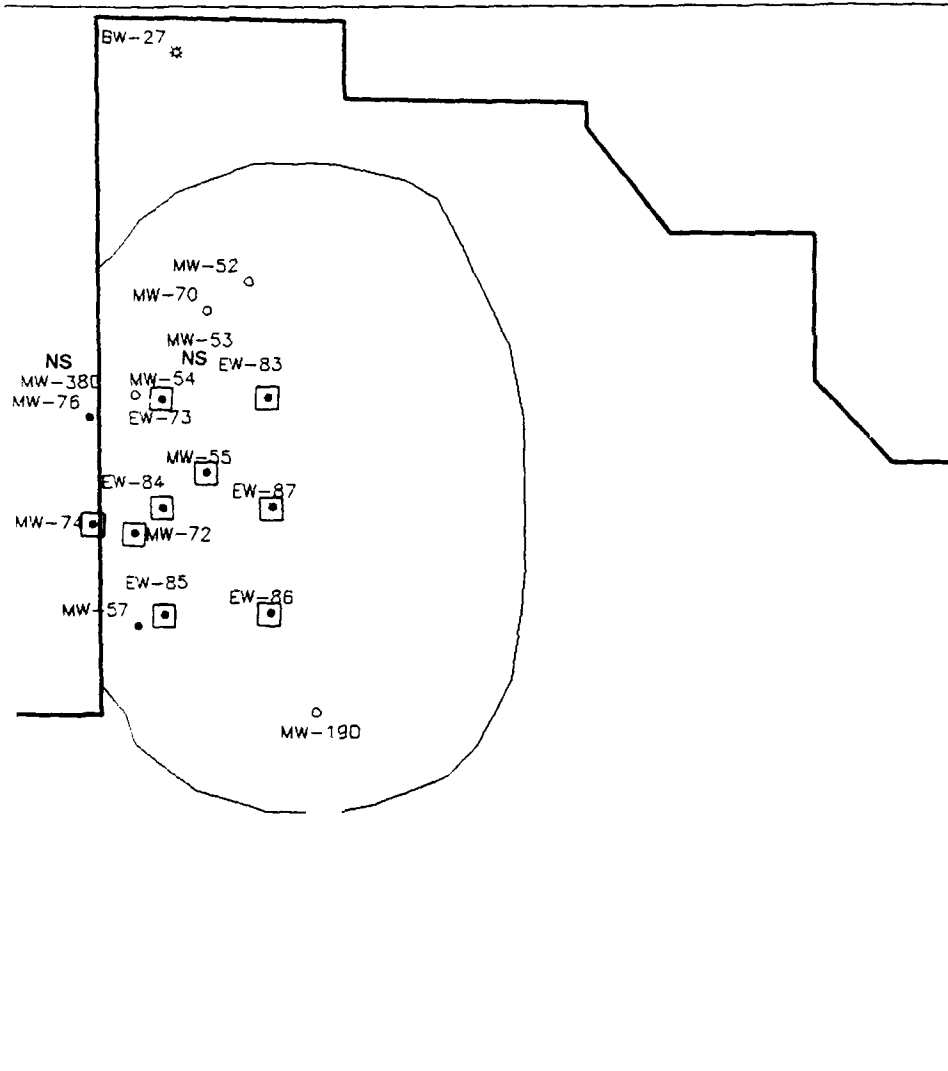


## **MOST RI IN AREA I**



**Figure 3-40.**  
**Historical & Present**  
**Occurrence of TCE in**  
**Middle Zone Monitoring Wells,**  
**Area D & Adjacent On-Base Areas.**

**MOST RECENT OCCURRENCE OF TCE**  
**IN AREA D MIDDLE MONITORING WELLS**  
**(OCTOBER 1988)**



**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◻ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well

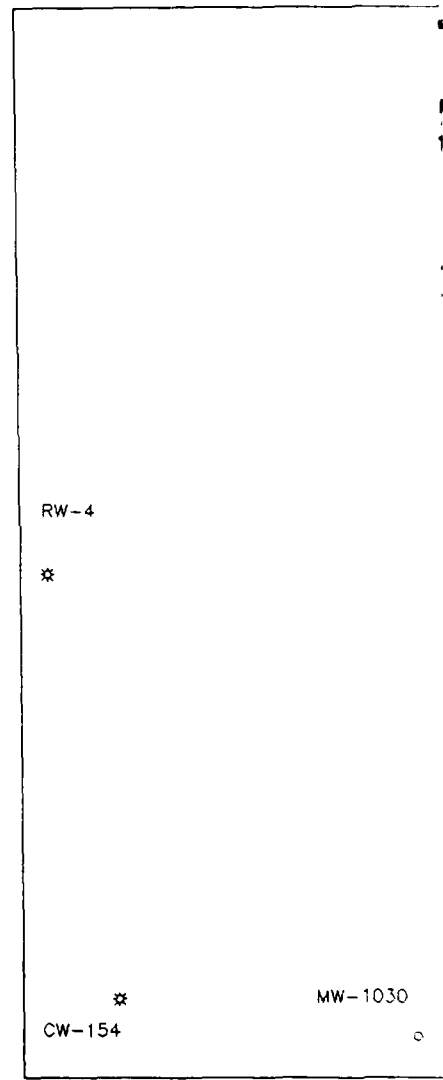
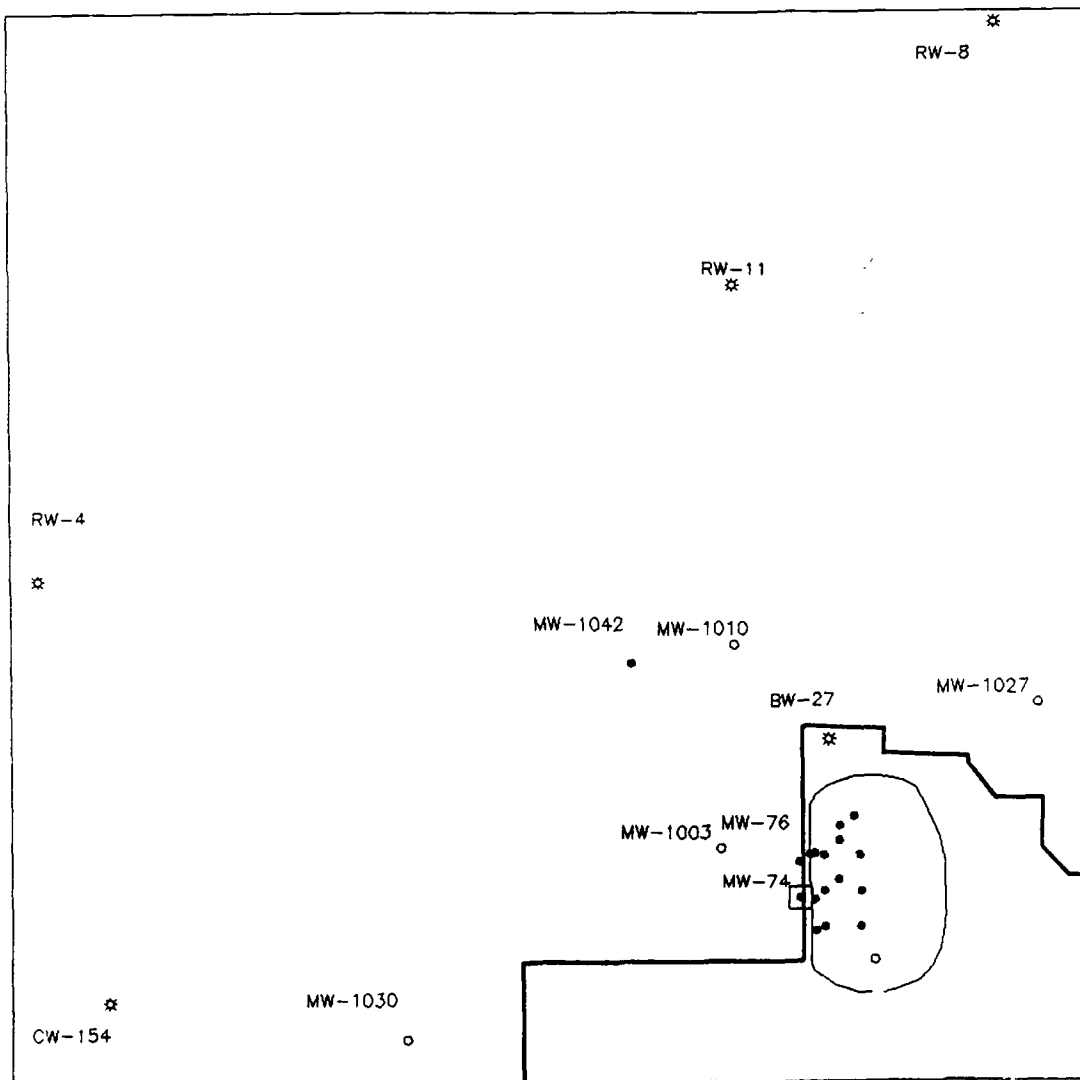


0 250 500  
 SCALE IN FEET

**RADIAN**  
 CORPORATION

**HISTORICAL OCCURRENCE OF TCE  
IN NORTHWEST AREA MIDDLE MONITORING WELLS**

**MOST RE  
IN NORTHWEST**



**MOST RECENT OCCURRENCE OF TCE  
IN NORTHWEST AREA MIDDLE MONITORING WELLS  
(OCTOBER 1988)**

**Figure 3-41.  
Historical & Present  
Occurrence of TCE in  
Middle Zone Monitoring Wells,  
Northwest Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◼ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

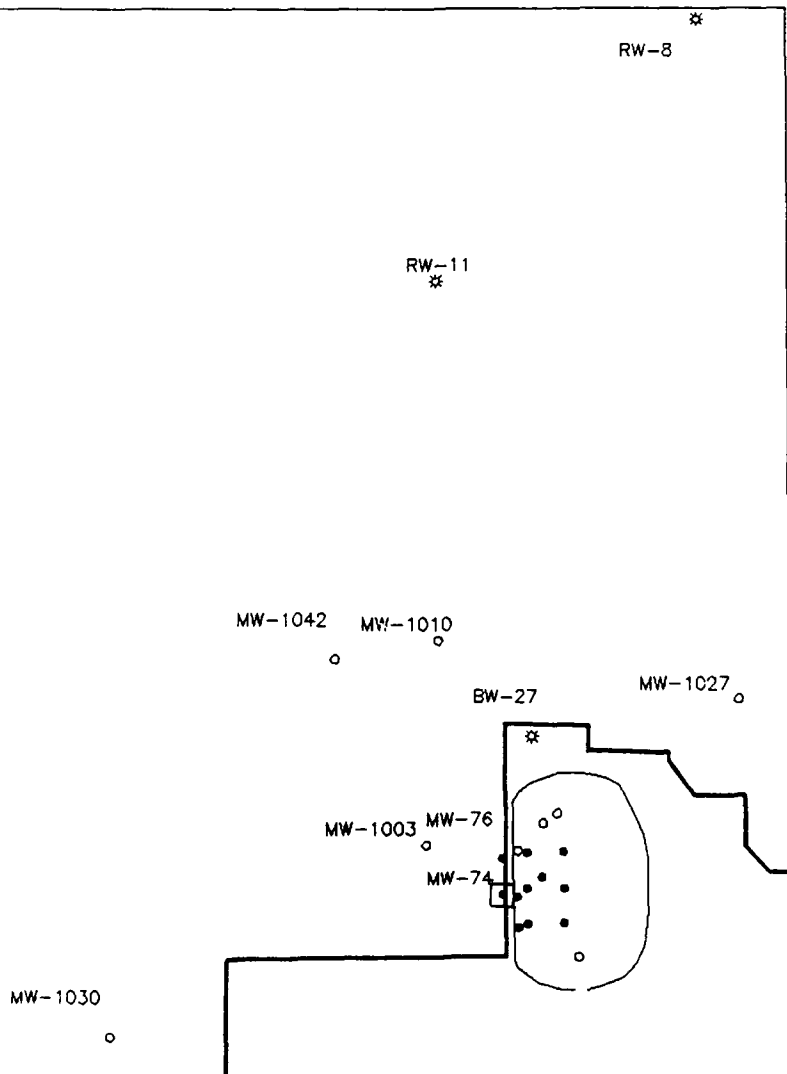
**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 750 1500  
SCALE IN FEET

**RADIAN  
CORPORATION**



**HISTORICAL OCCURRENCE OF TCE  
IN AREA D DEEP "A" MONITORING WELLS**

**MOST F  
IN AREA I**

BW-27 ✱  
MW-104 ○

MW-58 ●

MW-1 ●

MW-51 ●

□  
MW-59

MW-105 ○

BW-27 ✱  
MW-104 ○

MW-58 ○

NS  
MW-1

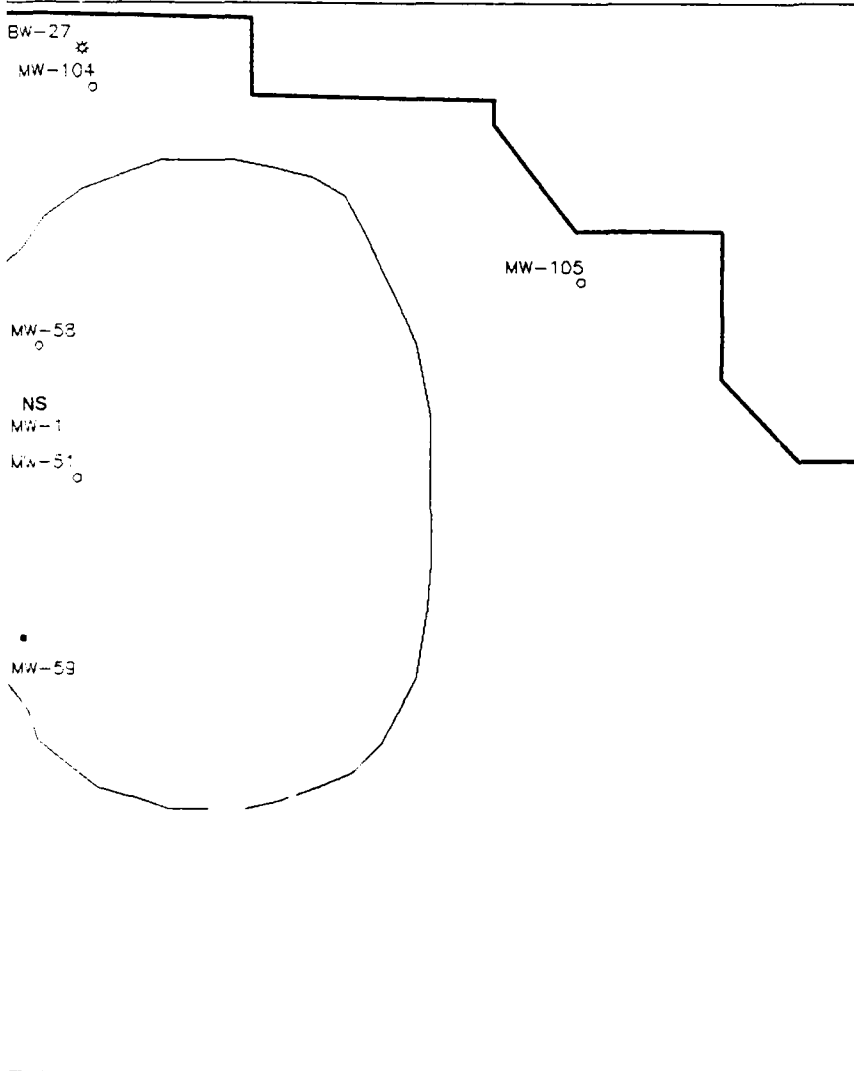
MW-51 ○

●  
MW-59



**Figure 3-42.**  
**Historical & Present**  
**Occurrence of TCE in**  
**Deep "A" Zone Monitoring Wells,**  
**Area D & Adjacent On-Base Areas.**

**MOST RECENT OCCURRENCE OF TCE**  
**IN AREA D DEEP "A" MONITORING WELLS**  
**(OCTOBER 1988)**



**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- ◐ TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well

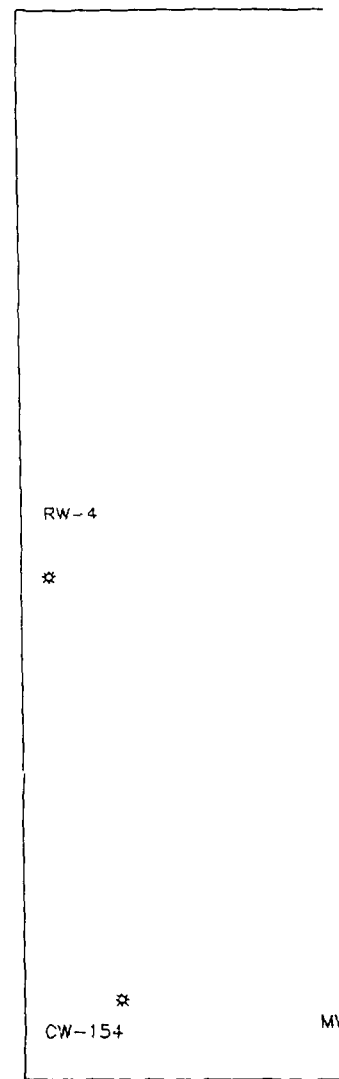
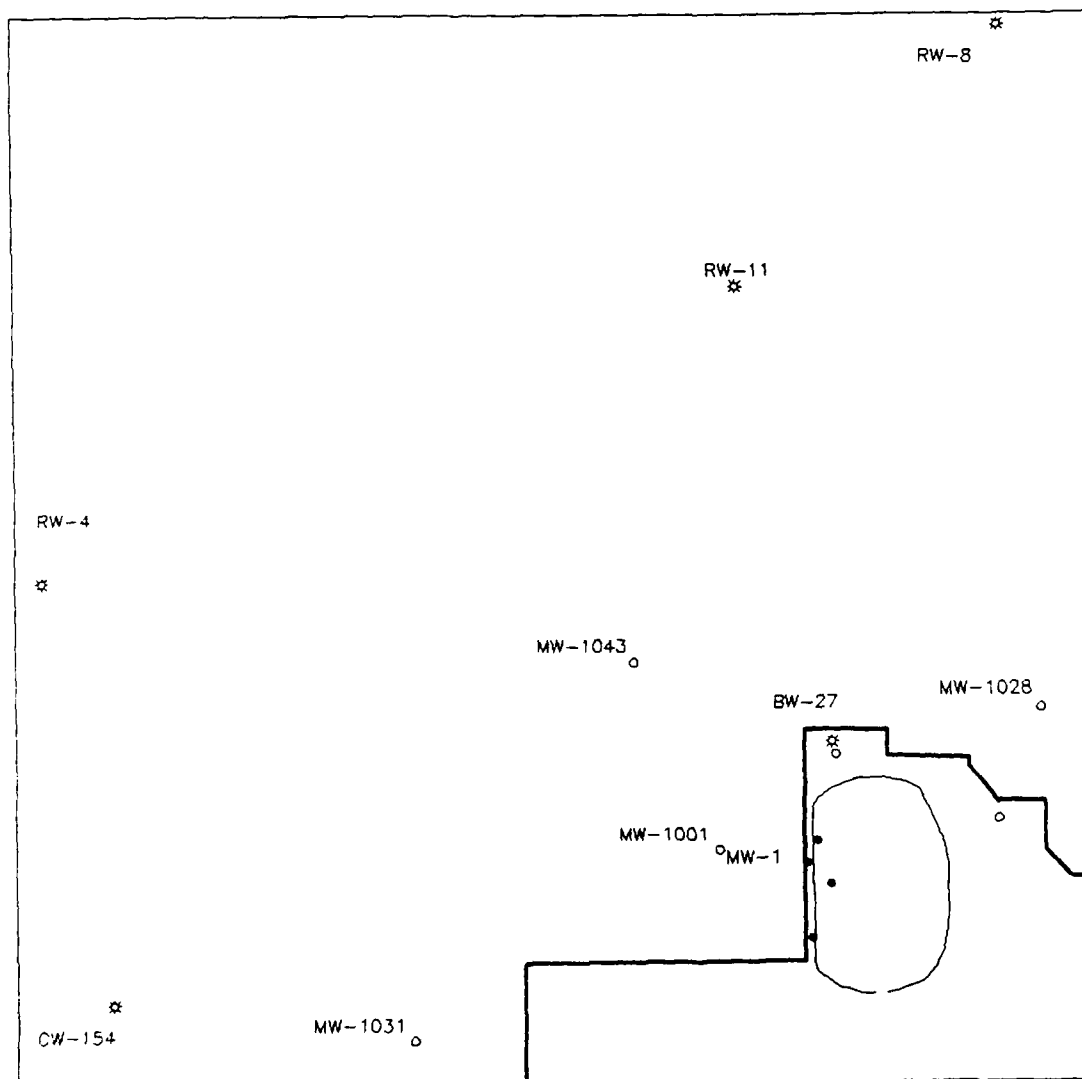


0 250 500  
 SCALE IN FEET

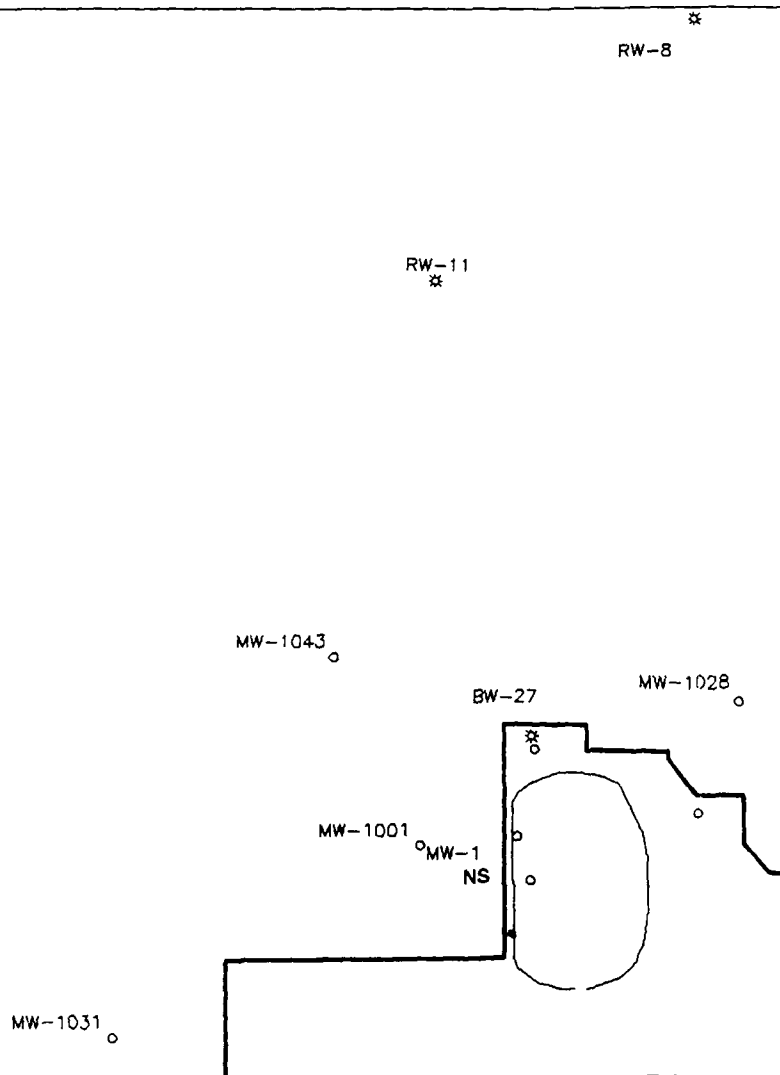
**RADIAN**  
 CORPORATION

HISTORICAL OCCURRENCE OF TCE  
IN NORTHWEST AREA DEEP "A" MONITORING WELLS

IN NORTH



**MOST RECENT OCCURRENCE OF TCE  
IN NORTHWEST AREA DEEP "A" MONITORING WELLS  
(OCTOBER 1988)**



**Figure 3-43.  
Historical & Present  
Occurrence of TCE in  
Deep "A" Zone Monitoring Wells,  
Northwest Area.**

**LEGEND:**

- McClellan AFB Boundary
- Boundaries of Past Disposal / Storage Sites

**MONITORING WELLS**

- TCE Not Detected
- TCE Concentrations Below Standard
- TCE Concentrations Above Standard
- EW Extraction Well
- + Dry or Abandoned Well
- \* Other Wells
- NS Not Sampled

**OTHER WELLS**

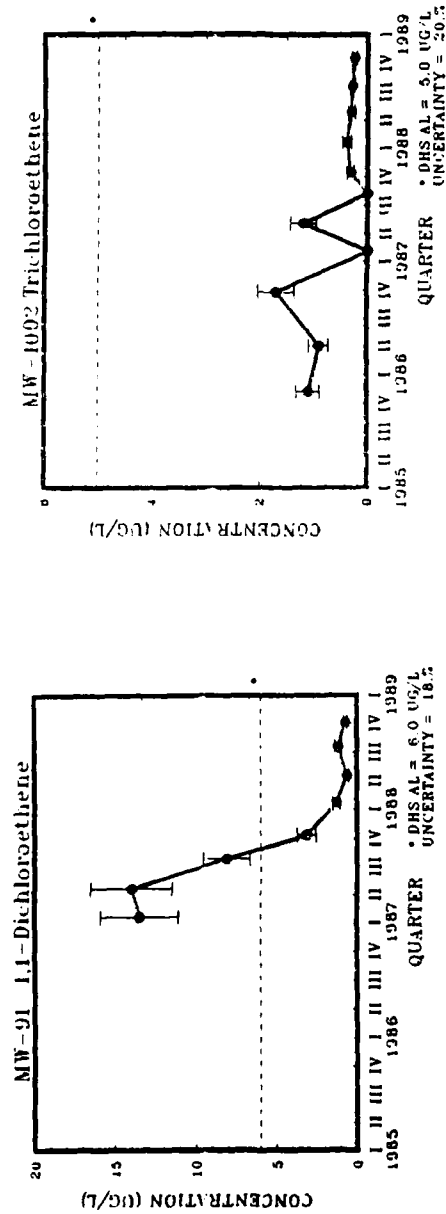
- BW Base Water Supply Well
- CW City of Sacramento Water Supply Well
- NW Northridge Water District Water Supply Well
- RW Rio Linda Water District Water Supply Well
- AW Arcade Water District Water Supply Well
- CT CalTrans Irrigation Well



0 750 1500  
SCALE IN FEET

**RADIAN  
CORPORATION**

# NORTHWEST AREA SHALLOW ZONE WELLS



Note: 95% Confidence intervals are shown for concentrations for each data point to indicate the uncertainty in concentration values (in percent) for that analyte.

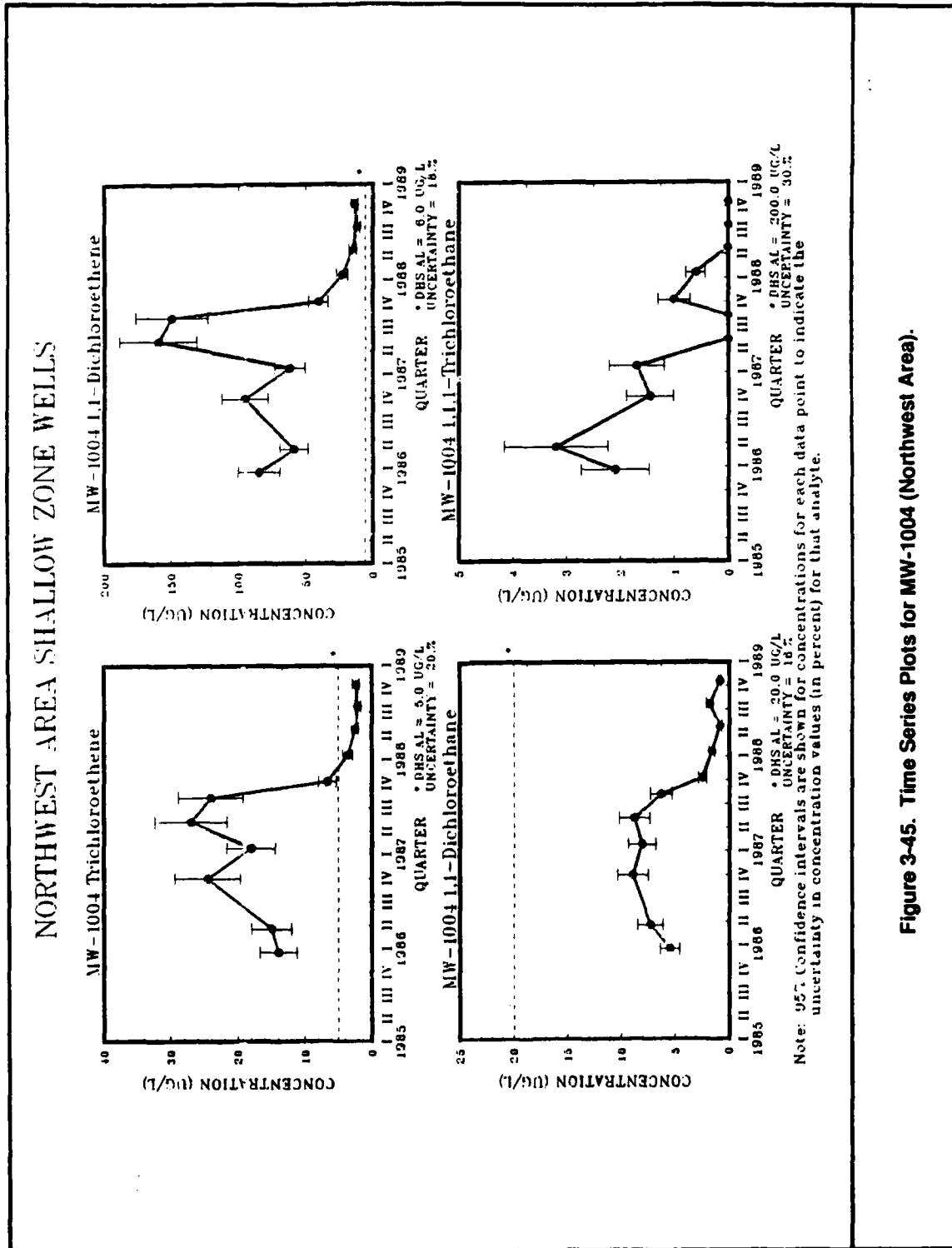
**Figure 3-44. Time Series Plots for MW-91 and MW-1002  
(Area D and Northwest Area).**

3-44, 3-45 and 3-46). Table 3-23 shows the analytes and the magnitude of the trends. The magnitude of the trend is only a median estimate of the decrease per sampling period and can be used as an indication of the steepness of the trend. It should not be interpreted as an expected or constant decrease since the decreases are not linear. As can be seen from the time series plots, for most of these wells the decrease was very rapid during the third and fourth sampling periods of 1987 and is progressively leveling off. Other indicators of the total amount of the decrease are the absolute decrease over the sampling history of the well and the percentage decrease. These quantities are also shown in Table 3-23.

There are several shallow zone monitoring wells that do not show significant trends. These wells are located close to identified sources and are not expected to show rapid decreases in contaminant concentrations. Samples from MW-10, MW-11, MW-12, MW-14 and MW-15 have been collected three times since April of 1988. None of the analytes detected in these wells show statistically significant trends at this time. However, a qualitative comparison between the 1985 concentration levels and the current reported concentrations shows a downward shift in concentrations for most analytes (Figure 3-47). For example, TCE concentrations are down by a factor of at least four for all of these wells except MW-10. Similar results hold for 1,1-DCE and 1,1,1,TCA. These wells should be re-evaluated when more data are available.

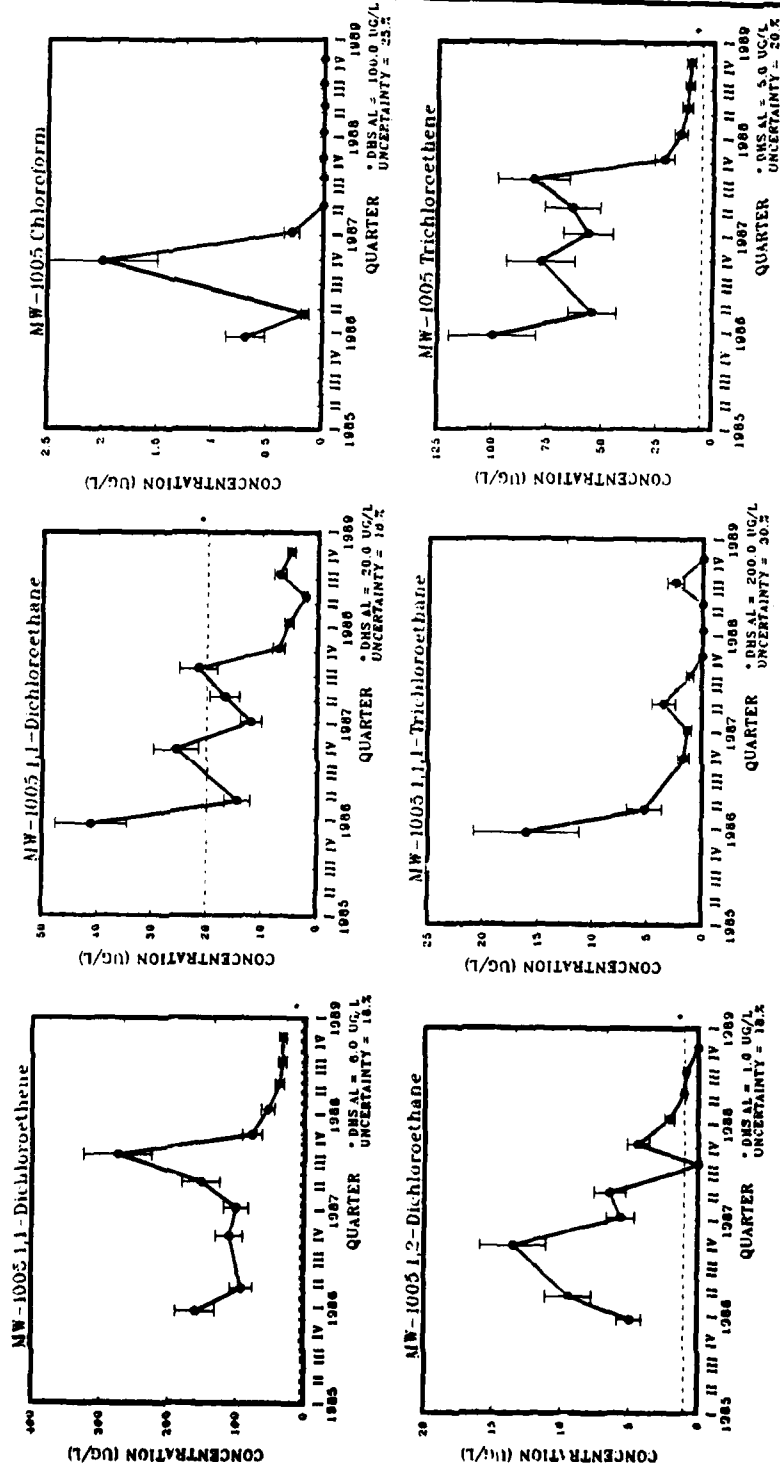
One increasing trend appears in the shallow zone monitoring well MW-89 (Figure 3-48). This well shows an increasing trend for 1,1-DCE at the rate of approximately 0.25 ug/L per sampling period. 1,1-DCE was first detected in January 1988 at a level of 0.75 ug/L and has increased to a level of 2.5 ug/L. Another slightly increasing trend in total 1,2-DCE was observed but not statistically verified for MW-1019, located in the Northwest area.

In the middle groundwater zone, analytical data for MW-54 and MW-55 show decreasing trends as shown in Table 3-22 and Figures 3-49 and 3-50. One well, MW-53, has an increasing trend for 1,1-DCE which was first detected in this well in July 1987. The median increase is estimated to be 1.39 ug/L.



**Figure 3-45. Time Series Plots for MW-1004 (Northwest Area).**

NORTHWEST AREA SHALLOW ZONE WELLS



Note: 95% Confidence intervals are shown for concentrations for each data point to indicate the uncertainty in concentration values (in percent) for that analyte.

Figure 3-46. Time Series Plots for MW-1005 (Northwest Area).

AREA D SHALLOW ZONE WELLS

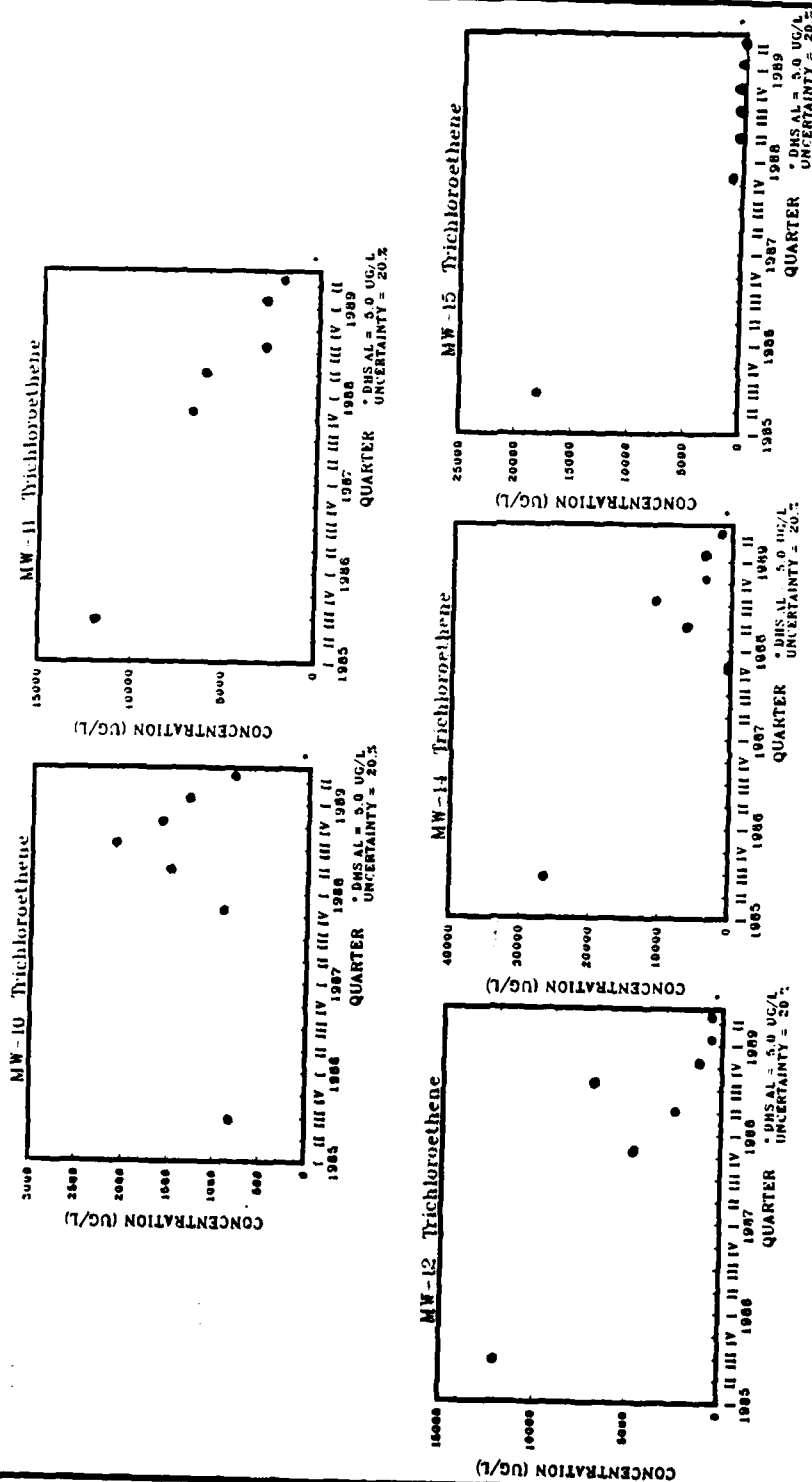
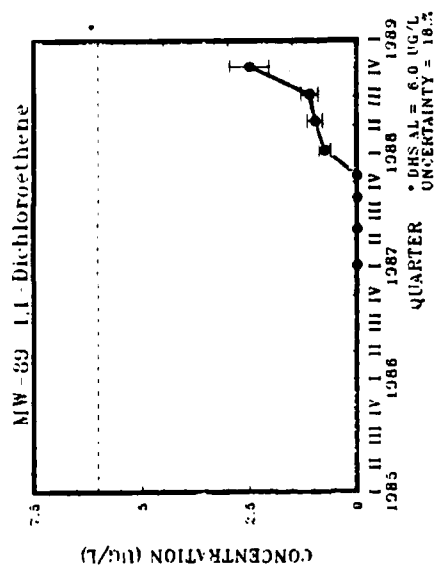


Figure 3-47. Concentration versus Time Graphs for MW-10, MW-11, MW-12, MW-14, and MW-15.



# AREA D SHALLOW ZONE WELLS



Note: 95% Confidence intervals are shown for concentrations for each data point to indicate the uncertainty in concentration values (in percent) for that analyte.

Figure 3-48. Time Series Plots for MW-89 (Area D and Adjacent On-Base Areas).

TABLE 3-23. AREA D AND NORTHWEST AREA MONITORING WELLS WITH DECREASING TRENDS IN CONCENTRATIONS AT 90% CONFIDENCE LEVEL

Well Number	Number of Times Sampled	Analyte	Median Estimate of Decrease Per Time Period (ug/L)	90% Confidence Interval for Decrease (ug/L)	Absolute Change (ug/L)	Percent Change (%)
Shallow Monitoring Zone						
MW-91	8	1,1-Dichloroethene	-1.95	a	14 to 0.74	-95
MW-1002	11	Trichloroethene	-0.08	(0, -0.18)	1.1 to 0.25	-77
MW-1004	11	1,1-Dichloroethene	-8.00	(-5.00, -12.75)	120 to 14	-88
		1,1-Dichloroethane	-0.88	(-0.41, -1.09)	11 to 0.84	-92
		1,1,1-Trichloroethane	-0.24	(-0.11, -0.40)	2.1 to ND	b
		Trichloroethene	-1.60	(-0.40, -3.19)	14 to 2.4	-83
MW-1005	11	1,1-Dichloroethene	-11.08	(-6.67, -15.25)	160 to 32	-80
		1,1-Dichloroethane	-2.05	(-1.25, -3.88)	41 to 4.8	-88
		Chloroform	-0.03	(0, -0.08)	0.7 to ND	b
		1,2-Dichloroethane	-1.00	(-0.49, -1.23)	5 to ND	b
		1,1,1-Trichloroethane	-0.41	(-0.19, -1.15)	16 to ND	b
		Trichloroethene	-8.46	(-3.77, -11.00)	100 to 9.7	-90
Middle Monitoring Zone						
MW-54	9	Vinyl Chloride	-40.21	a	1200 to 0.74	-99.9
		1,1-Dichloroethene	-13.66	a	430 to ND	b
		1,1-Dichloroethane	-42.51	a	1400 to ND	b
MW-55	9	1,1-Dichloroethene	-21.88	a	210 to 60	-71
		1,1-Dichloroethane	-2.03	a	14 to 5.1	-64
		1,1,1-Trichloroethane	-5.06	a	15 to 2.6	-83
		Trichloroethene	-8.58	a	110 to 14	-87
		Tetrachloroethene	-4.08	a	13 to 1.5	-88
Deep Monitoring Zone						
MW-59	10	1,1-Dichloroethene	-7.24	(-1.50, -18.85)	270 to ND	b
		1,1,1-Trichloroethane	-0.37	(-0.12, -1.62)	19 to ND	b
		Trichloroethene	-4.85	(-1.50, -21.80)	290 to 0.23	-99

a The confidence interval is not valid since well has been sampled less than 10 times.  
 b Percent change cannot be calculated using ND

ND = Not detected.

# AREA D MIDDLE ZONE WELLS

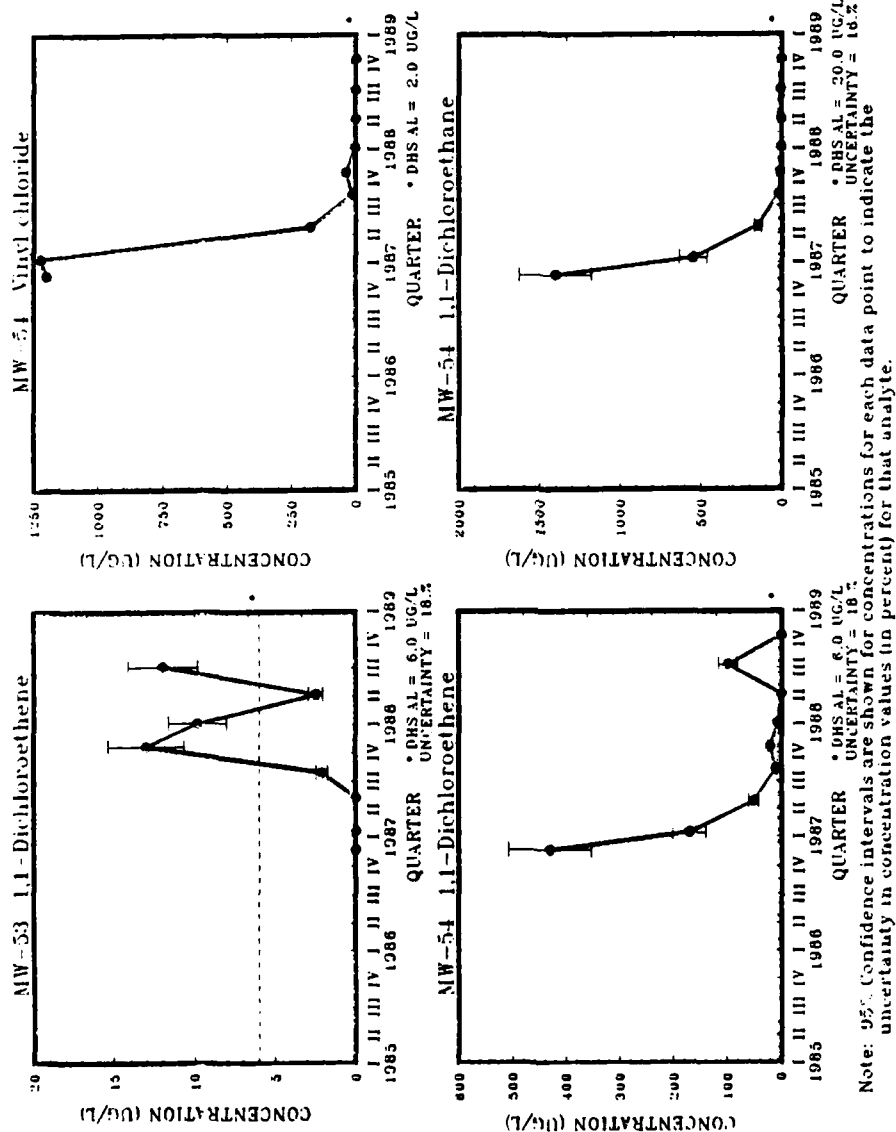


Figure 3-49. Time Series Plots for MW-53 and MW-54  
(Area D and Adjacent On-Base Areas).

# AREA D MIDDLE ZONE WELLS

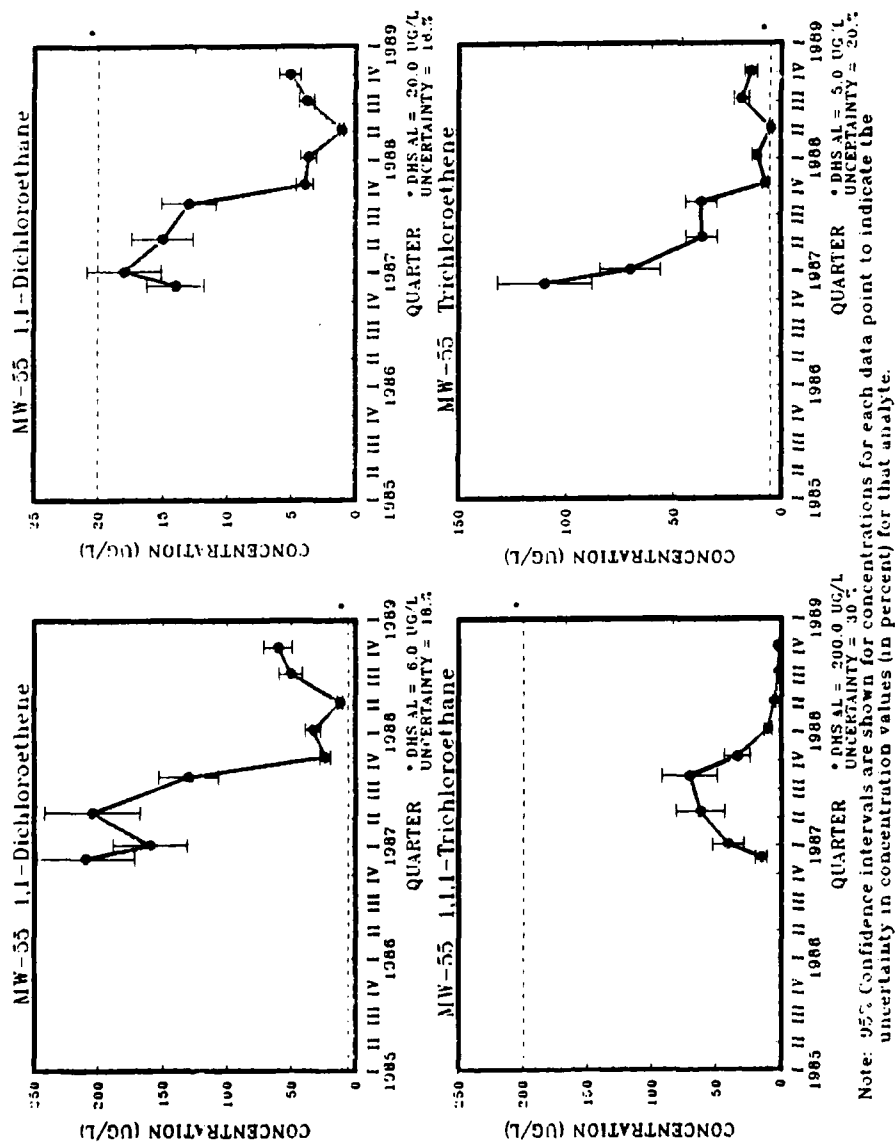


Figure 3-50. Time Series Plots for MW-55 (Area D and Adjacent On-Base Areas).

Successive samplings since that time have also shown the presence of 1,1,1-TCA, TCE and PCE. In the Northwest Area, MW-74 and MW-76 were sampled three times each in 1988. These three data points are not adequate to establish a trend at the 90 percent confidence level.

In the deep groundwater zone, MW-59 shows decreasing trends for TCE, 1,1-DCE and 1,1,1-TCA (Figure 3-51). MW-58 is the only other deep zone monitoring well that has contained detectable levels of the key analytes. There have been low levels of TCE, 1,1-DCE and 1,1,1-TCA detected sporadically in the past in MW-58, but no analytes were detected in the October 1988 samples.

Decreasing contaminant concentration trends are detected in several Area D wells in the shallow, middle, and deep "A" zones. The only exceptions are MW-89 (shallow monitoring zone) and MW-53 (middle monitoring zone). In the Northwest Area, those wells close to the Area D boundary also show decreasing trends.

#### 3.5.5 Discussion

In Area D and the Northwest Area, there is a large data base of hydrologic information and analytical results. Based on the potentiometric surface maps and analytical data the following observations and interpretations can be made:

- The Area D extraction system appears to be a significant factor in determining groundwater flow directions and contaminant movement;
- Contaminant concentrations in several off-base shallow zone monitoring wells located just west of Area D show decreasing trends, indicating that contaminants are no longer moving from on-base areas to off base areas;

AREA D DEEP ZONE WELLS

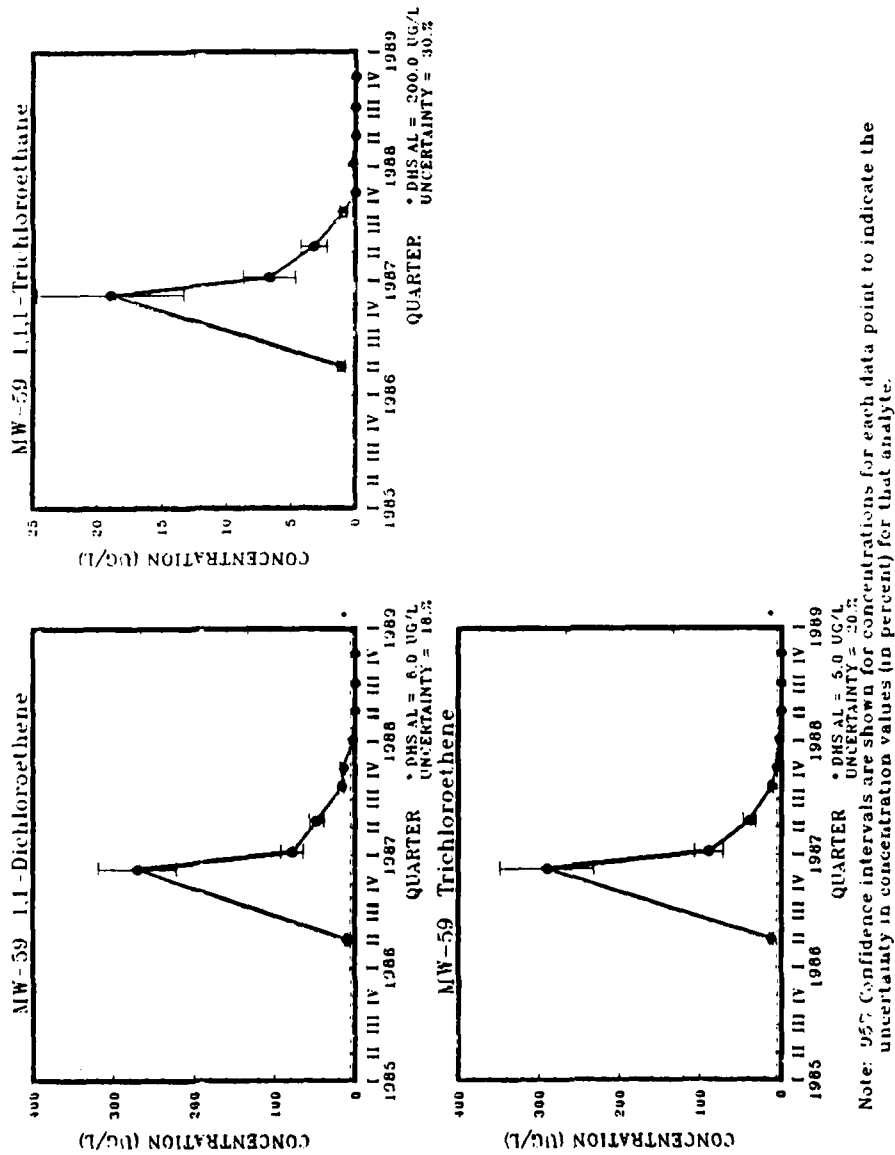


Figure 3-51. Time Series Plots for MW-59 (Area D and Adjacent On-Base Areas).

- The limited analytical results from two deep zone monitoring wells within Area D indicate that TCE concentrations have decreased to low levels ( $<1.0$  ug/L). This may indicate that the extraction system wells (screened in the shallow and middle monitoring zones) are also affecting downward migration of contaminants; and
- Contamination in Area D now generally appears to be limited to the shallow and middle monitoring zones, based on information from the existing monitoring wells.

As previously stated, prior to the operation of the Area D extraction system, groundwater flow and contaminant migration was seasonally to the west-northwest. Since 1987 local groundwater flow has been towards the six extraction wells. In order to estimate the rate of horizontal groundwater movement towards the extraction wells, a modified form of Darcy's Law can be used:  $q = Ki/n$ . These terms have been defined in Section 3.1.4.

Two aquifer tests have been performed in Area D, one by CH2M Hill in 1984 and one by McLaren Engineering in 1986. Data from the CH2M Hill test for the middle monitoring zone were used to calculate a range of horizontal groundwater velocities within the sphere of influence of the Area D extraction system. Using the transmissivity determined by CH2M Hill and an average test zone thickness of 16 feet, a hydraulic conductivity value of  $315 \text{ gpd/ft}^2$  was obtained. Horizontal hydraulic gradients for the shallow and middle monitoring zones in Area D range from 0.0022 to 0.013 (Table 3-24). Effective porosity values have not been determined but can be estimated to range from 15 to 25 percent for the types of aquifer materials present beneath Area D (Freeze and Cherry, 1979). Based on these parameters, the estimated groundwater flow rate towards the Area D extraction system ranges from 0.62 to 3.6 feet/day. The higher velocity of 3.6 feet/day was calculated using a gradient between a well pair near EW-73 (MW-54 & MW-76). EW-73 is pumped at a rate approximately double that of the other five extraction wells, and the gradient probably reflects that higher pumping rate.

TABLE 3-24. MONITORING WELLS LOCATED IN OTHER ON-BASE AREAS

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells <sup>a</sup>	Abandoned (Grouted)	Total Number of Wells
Shallow	MW-31S MW-101 MW-102 MW-106 MW-116	MW-16S MW-18S <sup>a</sup> MW-43S MW-49S	MW-17S MW-29S	MW-24S MW-30S MW-42S <sup>a</sup> MW-47S MW-48S MW-50	17
Middle	MW-17D <sup>a</sup> MW-18D MW-24D MW-29D MW-100 MW-103	MW-16D <sup>a</sup>	None		7
Deep	None	MW-3 MW-4	None		2
Total Number of Wells	11	7	2	6	26

<sup>a</sup> Samples collected from this well have contained TCE.



#### Apparent Migration

Based on previous discussions of contaminant distribution and trend analysis, several observations on apparent contaminant migration can be presented for Area D, Adjacent On-Base Areas, and the Northwest Area. Historically, contaminants appear to have migrated south-southwest and west-northwest away from Area D with the groundwater flow. This is apparent because samples from upgradient monitoring wells due north, northeast, and east of the Area D wellfield and historical disposal sites have never contained TCE. East and southeast of the wellfield, 1,1-DCE has been detected in MW-19D, MW-88, MW-89, and MW-90. The possibility exists that there is an undiscovered site to the east of these wells which released contaminants other than TCE or that TCE degradation has occurred. 1,1-DCE occurs as a daughter product of TCE degradation. The presence of vinyl chloride in several Area D wells supports the idea that TCE degradation is occurring in this area. Vinyl chloride, also a daughter product of TCE degradation, has been detected in several Area D wells and was reportedly not used in base activities.

Finally, the presence of TCE in shallow zone wells, MW-1029 and MW-1019, suggest that horizontal flow was the dominant flow component away from Area D before the extraction system began operating. MW-1029 is part of a three well cluster, MW-1029/1030/1031, and is located approximately 3,750 feet west of Area D. Contaminants have never been detected in samples from the middle and deep zone wells in this cluster. MW-1019, is located 6,250 feet west of Area D. In addition to low levels of TCE, this well has even shown a slight increasing trend at low levels (less than 1 ug/L) for Total 1,2-DCE.

#### Evaluation of the Area D Extraction System

The Area D extraction system was completed by McLaren Engineering in 1986. The system was initially tested in December 1986 and became fully operational in March 1987. The system consists of six wells screened from 40

## **RADIAN** CORPORATION

to 160 feet below ground surface which pump continuously at a cumulative rate of approximately 80 gpm. The extracted water is pumped via an above ground pipeline to the Groundwater Treatment Plant (GTP) where the water is treated to remove volatile organic contaminants. A synthetic liner and clay cap have been installed over the area of identified soil contamination to prevent further leaching of contaminants towards the water table.

The purpose of the extraction system is to isolate and contain groundwater contaminants within Area D (McLaren Environmental Engineering, 1987). To accomplish this goal, McLaren recommended that the effectiveness of the extraction system be based on the evaluation of gradient controls between specific pairs of wells. The specified gradients were based on head differences of 0.2 feet between the well pairs. McLaren also recommended pumping at the minimum flow rate of 78 gpm, which would result in a 3-foot drawdown in the monitoring wells after one year of pumping. McLaren specified the 78 gpm flow rate to minimize the decline of groundwater levels, and to prolong the usefulness of the extraction system.

The potentiometric surface maps now clearly show that the extraction system is working properly to isolate and contain contaminants within Area D (Plates 2, 3, and 4). The well developed cones of depression in the shallow and middle zones show that groundwater flow is toward the extraction system and is causing contaminated groundwater to be drawn from the off-base area toward the extraction system. Based on the most recent potentiometric map, there is no evidence of a cone of depression in the deep monitoring zone, and the maps show that flow is toward the southeast from off-base to on-base.

Water quality data presented for Area D in discussions on contaminant distribution and trend analyses also support the conclusion that the extraction system is working effectively. Decreasing trends in contaminants have been statistically confirmed in seven wells within Area D and to the west just off base. In the shallow zone, there are four wells with decreasing trends, in the middle zone there are two, and in the deep zone there is one well with a decreasing trend.

3.6 Other On-Base Areas

Other On-Base Areas encompass all other areas that are not included in Areas A, B, C, and D. The four designated areas are located along the western and southern boundaries of the base while Other On-Base Areas mainly include areas in the northern and eastern portions of the base. Within Other On-Base Areas there are locations that may be sources of groundwater contamination. Two confirmed sites, 3 PSPRLs and 13 UPRLs have been identified in Other On-Base Areas. These consist of open ditches, landfills, aircraft maintenance hangers and underground storage tanks.

There are 26 monitoring wells located in Other On-Base Areas. These include 11 network monitoring wells, 7 non-network monitoring wells, and 8 wells that are now dry. All of the monitoring wells that are part of the Sampling and Analysis program are screened in the shallow and middle monitoring zones (Table 3-24). The two non-network monitoring wells in the deep zone have been scheduled to be abandoned (destroyed).

Contaminants have been detected in three wells in Other On-Base Areas but only at low levels of less than 1.5 ug/L and at irregularly spaced sampling intervals (Table 3-25). Two of the wells are screened in the shallow monitoring zone (MW-18S and MW-42S) and one well is screened in the middle monitoring zone (MW-17D). These three wells are located in widely separated areas of the base. MW-18S is located approximately 3500 feet east of Area D, MW-42S is located at the southern tip of the base, and MW-17D is located at the northern tip of the base.

3.7 Northeast Area

The Northeast Area is located east of the northern portion of the base. This area is considered to be upgradient of the base, with groundwater flow generally to the south-southeast. There are only two monitoring wells located in the Northeast Area (Table 3-26). One is screened in the shallow monitoring zone (MW-1012) and the other is screened in the deep monitoring

TABLE 3-25. RANGES OF DETECTABLE CONCENTRATIONS FOR KEY ANALYTES<sup>a</sup>  
 IN MONITORING WELLS LOCATED IN OTHER ON-BASE AREAS  
 FROM 1985 TO 1988, McCLELLAN AFB

Groundwater Monitoring Zone	Analyte	Minimum Concentration Detected	Maximum Concentration Detected
All units are ug/L			
Shallow	1,1-Dichloroethane	0.2	1.1
	Chloroform	0.1	0.12
	Trichloroethene	0.7	1.1
	Tetrachloroethene	0.12	0.47
Middle	1,1-Dichloroethane	0.32	0.32
	1,1-Dichloroethane	0.13	0.13
	Total 1,2-Dichloroethene	0.22	0.22
	Chloroform	0.10	0.4
	1,2-Dichloroethane	0.33	0.33
	Trichloroethene	0.39	0.39
Deep	No Wells Have Been Sampled in This Zone		

<sup>a</sup> The 10 key analytes and associated action levels are given in the table below.

Key Analyte	DHS Action Level	EPA Primary MCL
Vinyl Chloride	2	1
1,1-Dichloroethene	6	7
1,1-Dichloroethane	20	NE
Total 1,2-Dichloroethene	16	NE
Chloroform	100	100
1,2-Dichloroethane	1	5
1,1,1-Trichloroethane	200	200
Carbon Tetrachloride	5	5
Trichloroethene	5	5
Tetrachloroethene	4	NE

NE - Not established.  
 Units are ug/L.

TABLE 3-26. MONITORING WELLS LOCATED IN THE NORTHEAST AREA  
GROUNDWATER SAMPLING AND ANALYSIS PROGRAM, ANNUAL  
TECHNICAL REPORT (JAN - DEC 1988)

Groundwater Monitoring Zone	Network Wells	Non-Network Wells	Dry Wells	Total Number of Wells
Shallow	MW-1012	None	None	1
Middle	None	None	None	0
Deep	MW-1040	None	None	1
Total Number of Wells	2	0	0	2

**RADIAN**  
CORPORATION

zone (MW-1040). Both wells are included in the groundwater monitoring network. Levels less than 0.28 ug/L levels of 1,1,1-TCA have been detected twice in MW-1012, but no other contaminants have been detected in this well. Groundwater contaminants have not been detected in MW-1040 since the well was initially sampled in 1985. Because of the on-base groundwater flow direction, the two monitoring wells in the Northeast Area are helpful in determining upgradient water quality and identifying any on-base migration of contaminants.

#### 4.0 RECOMMENDATIONS

Based on the analysis of the hydrogeologic and analytical data, limitations of the existing data and monitoring well network were identified. These limitations and recommendations to overcome the deficiencies of the analytical and hydrogeologic data are summarized below. The data needs identified in this report have been discussed in previous reports (Data Summary, Quarterly Reports and the Preliminary Groundwater Operable Unit Remedial Investigation [PGOURI]). Implementation of the PGOURI (Radian, March 1989) will address most of the data needs identified in this report.

In Area A and the Southeast Area, there are a lack of monitoring wells from which to measure water levels and collect groundwater samples. There are several active water supply wells located within or near these areas. The active wells include base well (BW)-20 and BW-10, located north of Area A, off-base supply wells in the Southeast Area (NW-14 and several CALTRANS irrigation wells), and BW-18 and Sacramento City Wells CW-150, CW-132 and CW-131 located southwest of Area A. The effects of pumping these water supply wells cannot be determined from the existing monitoring wells. In addition, historical analytical data from shallow zone monitoring wells and present data from the few existing monitoring wells indicate that there is groundwater contamination beneath Area A. However, the lateral and vertical extent of the contamination cannot be determined from sampling the existing monitoring wells. Based on these findings, installation of additional wells has been recommended. These wells should be located along the base boundary and between active water supply wells and potential sources of contaminants. A total of 22 monitoring wells at 8 well cluster location are planned in these areas as part of the Hydrogeologic Assessment Work Plan.

In Area B and the Southwest Area, there is also a need for additional wells to further define the effects of pumping of active water supply wells and the extent of contamination. The effects of BW-18 and other active Sacramento City Wells are apparent on the potentiometric maps generated from

the existing monitoring well network data. However, information on pumping schedules and additional water level measurement points are needed to assess the individual effects of pumping these wells. In addition, wells are needed to define the lateral and vertical extent of contamination in the Southwest Area as well as south and east of Area B. Additional wells will be installed between BW-18 and the Sacramento City Water supply wells during the Spring of 1989 as part of the PGOURI.

In Area C, additional wells are needed to measure water levels in order to evaluate the Area C extraction system. The location and screen depths of existing monitoring wells in the vicinity of the four extraction wells are not adequate to assess the hydraulic gradients resulting from pumping these wells. Additional wells are needed to the west and south of Area C to determine the lateral and vertical extent of groundwater contamination and to monitor long term water quality changes. Based on these findings installation of additional wells is recommended to measure water levels and monitor water quality. There are 10 monitoring wells at 5 well cluster locations included for Area C in the Hydrogeologic Work Plan.

In Area D there are an adequate number of wells to define the effect of the extraction system on hydraulic gradients and long term water quality charges. However, additional wells are needed south of Area D to define the southern limits of the extraction system and to monitor water quality that is regionally downgradient from Area D. There is one well cluster made up of three monitoring wells planned for the northern end of Area C which will help in this evaluation, but at least one additional cluster is still needed between MW-91 and the north end of Area C.

Along the eastern side of the base, there are few monitoring wells to measure water levels and monitor water quality. There are active water supply wells located both on- and off-base that are influencing local groundwater flow. The effects of pumping BW-29 and BW-10 cannot be determined from



# **RADIAN**

**CORPORATION**

the existing number of monitoring wells in the eastern portion of the base. Additional wells are needed to define local groundwater flow and to monitor water quality. As part of the PGOURI, seven wells at three locations are planned.

The planned monitoring wells included in the PGOURI will help to define local groundwater flow patterns and to assess the horizontal and vertical extent of groundwater contamination in areas where the extent of contamination is not well defined.

**REFERENCES**

CH2M Hill, 1981. Installation Restoration Program Records Search for McClellan AFB. Contract No. F0863780 G0010 0002, July 1981.

CH2M Hill, May 1984. Installation Restoration Program, Phase III/IV Site Characterization Study, Technical Memorandum No. 3, On-Base Drilling Program and Hydrogeologic Evaluation of Area D for McClellan AFB. May, 1984.

CH2M Hill, February 1985. Installation Restoration Program, Phase III/IV - Area D Site Characterization Study, Final Report and Source Control Feasibility Study for McClellan AFB. Contract No. F0863780 G0010 5006, February 1985.

California, State of, Department of Water Resources. Evaluation of Ground Water Resources: Sacramento County, Bulletin No. 118-3. July 1974.

Fetter, C.W., Jr. Applied Hydrogeology. Charles E. Merrill Publishing Company, Columbus, Ohio, 1980.

Freeze, R. A. and Cherry, J.A. Groundwater. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1979.

Fritts, Thomas W., and Mark R. Hanson. "An Evaluation of Results from Collocated Ambient High-Volume Samplers," Quality Assurance for Environmental Measurements, ASTM STP 867, J.K. Taylor and T.W. Stanley, Eds., American Society for Testing and Materials, Philadelphia, 1985, pp 76-88.

Gilbert, Richard O. Statistical Methods for Environmental Pollution Monitoring, Van Nostrand Reinhold Company, New York, 1987.

Hirsch, Robert M., James R. Slack, and Richard A. Smith. "Techniques of Trend Analysis for Monthly Water Quality Data," Water Resources Research, Vol. 18, No. 1, pages 107-121, February 1982.

Hirsch, Robert M., and James R. Slack. "A Nonparametric Trend Test for Seasonal Data with Serial Dependence," Water Resources Research, Vol. 20, No. 6, June 1984, pp. 727-732.

Hirsch, Robert M. "Selection of Trend Analysis Techniques for Water Quality Data," extended abstract presented before the Division of Environmental Chemistry, September 26, 1988.

McLaren Environmental Engineering, March 1985. Base Level Report Site Characterization of Areas A, B, C, and Other Sites, McClellan AFB, CA, Contract No. F04699-85-00020. March 1985.

McLaren Environmental Engineering, February 1986. Area B Site Characterization, Groundwater Report for McClellan AFB. Contract No. F04699-85-C0020, February 1986.

McLaren Environmental Engineering, April 1986. Area A Site Characterization Groundwater Report. Contract No. F04699-85-C0020, April 1986.

McLaren Environmental Engineering, June 1986. Area C Source Control Feasibility Study and Remedial Action Plan (RAP), McClellan AFB, Sacramento County. Contract No. F04699-85-C0020. June 1986.

McNichols, Roger J., and Charles B. Davis. "Statistical Issues and Problems in Ground Water Detection Monitoring at Hazardous Waste Facilities," Ground Water Monitoring Review, Fall, 1988. pp. 135-150.

Mitchell, William J., Raymond C. Rhodes, and Frank F. McElroy. "Determination of Measurement Data Quality and Establishment of Achievable Goals for Environmental Measurements," Quality Assurance for Environmental Measurements, ASTM American Society for Testing and Materials, Philadelphia, 1985, pp. 41-52.

Radian Corporation, March 1987. Installation Restoration Program Phase II - Confirmation/Quantification Interim Technical Report, Stage 2-3, Aquifer Testing and Evaluation. USAF Contract No. F33615-84-D4402, March 1987.

Radian Corporation, October 1987. Selection of On-Base Static Water-Level Observation Wells, Technical Memorandum for McClellan AFB. USAF Contract No. F33615-87-D-4402, October 1987.

Radian Corporation, September 1988. McClellan AFB, California, Remedial Investigation/Feasibility Study Semiannual Informal Technical Report, Final Copy. USAF Contract No. F33615-87-D-4023, September 1988.

Radian Corporation, February 1989. Installation Restoration Program, Stage 5, McClellan AFB, Area B Groundwater Operable Unit Remedial Investigation Work Plan, Final Copy. USAF Contract No. F33615-87-D-4023, February 1989.

Radian Corporation, March 1989. Installation Restoration Program Stage 6, McClellan AFB, Preliminary Groundwater Operable Unit Remedial Investigation, Preliminary Final Copy, USAF Contract No. F33615-87-D-4023, March, 1989.

SAS/STAT Guide for Personal Computers, Version 6 Edition, SAS Institute, Inc., Gary, NC, 1987.

Soil Conservation Service. Soil Survey of Sacramento County, CA, U.S. Department of Agriculture. June 1986.

Snedecor, George W., and William G. Cochran. Statistical Methods, .  
Seventh Edition. The Iowa State University Press, Ames, Iowa, 1980.

U.S. Environmental Protection Agency, January 1983. Guidelines for  
Assessing and Reporting Data Quality for Environmental Measurements,  
January 14, 1983.

**RADIAN**  
CORPORATION

APPENDIX A

TABLE A-1. MCCLELLAN AFB, GROUNDWATER MONITORING NETWORK

=====				
Area A and Adjacent On-Base Areas	Area B and Adjacent On-Base Areas	Area C and Adjacent On-Base Areas	Area D and Adjacent On-Base Areas	Other On-Base Areas
=====				
<b>129 TOTAL MONITORING WELLS</b>				
60 Total Shallow Zone Monitoring Wells				
42 Total Middle Zone Monitoring Wells				
23 Total Deep "A" Zone Monitoring Wells				
4 Total Deep "B" Zone Monitoring Wells				
<b>ON-BASE MONITORING WELLS (85 Total Wells)</b>				
<b>Shallow Zone Monitoring Wells (39 Total Wells)</b>				
MW-67 MW-68	MW-41S MW-120	MW-20S <sup>a</sup> MW-61	MW-10 MW-88	MW-31S MW-102
		MW-21S MW-62	MW-11 MW-89	MW-49S MW-106
		MW-22S <sup>a</sup> MW-107	MW-12 MW-90	MW-101
		MW-33S MW-110	MW-14 MW-91	MW-116
		MW-34S <sup>a</sup> MW-111	MW-15 MW-92	
		MW-36S MW-114	MW-19S <sup>a</sup>	
		MW-44S MW-128		
		MW-45S <sup>a</sup> MW-131		
		MW-60		
<b>Middle Zone Monitoring Wells (27 Total Wells)</b>				
MW-270 MW-71	MW-23D MW-121	MW-20D MW-113	MW-19D MW-55	MW-17D MW-29D
MW-69		MW-21D MW-115	MW-52 MW-57	MW-18D MW-100
		MW-75 MW-129	MW-53 MW-70	MW-24D MW-103
		MW-108 MW-135	MW-54 MW-72	
<b>Deep Zone Monitoring Wells (15 Total Wells)</b>				
	MW-63	MW-22D MW-112	MW-51 MW-104	
	MW-122	MW-109 MW-130	MW-58 MW-105	
		MW-134 MW-142	MW-59	
		MW-136 MW-143		
<b>Deep "B" Zone Monitoring Wells (4 Total Wells)</b>				
	MW-132	MW-133 MW-138		
		MW-136		
=====				

(Continued)

TABLE A-1. (Continued)

Southeast Area	Southwest Area	West Area	Northwest Area	Northeast Area
<b>OFF-BASE MONITORING WELLS (44 Total Wells)</b>				
<b>Shallow Zone Monitoring Wells (21 Total Wells)</b>				
MW-1013 MW-1037	MW-1011 MW-1021	MW-1017 MW-1033	MW-1002 MW-1019	MW-1012
MW-1014	MW-1016 MW-1023	MW-1018 MW-1036	MW-1004 MW-1026	
	MW-1020		MW-1005 MW-1029	
			MW-1009 MW-1041	
<b>Middle Zone Monitoring Wells (15 Total Wells)</b>				
MW-280 MW-1038	MW-1000 MW-1022	MW-1032 MW-1034	MW-74 MW-1027	
	MW-1015 MW-1024		MW-76 MW-1030	
			MW-1003 MW-1042	
			MW-1010	
<b>Deep Zone Monitoring Wells (8 Total Wells)</b>				
MW-1039	MW-1025	MW-1035	MW-1001 MW-1031	MW-1040
			MW-1028 MW-1043	

\* Dry well.

MW = Monitoring well.

NOTE: The letters "S" and "D" associated with monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.



TABLE A-2. WELL SPECIFIC DATA FOR NETWORK MONITORING WELLS LOCATED ON AND IN THE VICINITY OF MCCLELLAN AFB

Well Number <sup>a</sup>	Ground Surface		Casing I.D. (inches)	Casing Material	Screen Material	Screen Interval		Bladder Pump Depth <sup>b</sup> (ft bgs)	Purge Pump Intake <sup>b</sup> (ft bgs)
	Well Depth <sup>b</sup> (ft bgs)	Elevation <sup>c</sup> (ft msl)				Intake Depth <sup>b</sup> (ft bgs)			
10	105.0	62.18	4.0	PVC Sch 40	PVC Sch 40	95-105	NI	NI	NI
11	105.0	60.13	4.0	PVC Sch 40	PVC Sch 40	95-105	NI	NI	NI
12	105.0	61.26	4.0	PVC Sch 40	PVC Sch 40	95-105	NI	NI	NI
14	105.0	64.77	4.0	PVC Sch 40	PVC Sch 40	95-100	NI	NI	NI
15	105.0	65.62	4.0	PVC Sch 40	PVC Sch 40	95-100	NI	NI	NI
170	130.0	72.99	4.0	PVC Sch 40	SS	120-130	NI	NI	NI
180	145.0	69.50	4.0	PVC Sch 40	SS	135-145	144	139	139
195	87.0	58.84	4.0	PVC Sch 40	SS	77-87	NI	NI	NI
190 <sup>d</sup>	149.0	58.84	4.0	PVC Sch 40	PVC Sch 40	139-149	NI	NI	NI
205	90.0	60.37	4.0	PVC Sch 40	SS	80-90	NI	NI	NI
200	155.0	60.37	4.0	PVC Sch 40	SS	150-155	149	140	140
215	88.0	54.70	4.0	PVC Sch 40	SS	78-88	87	NI	NI
210	133.0	54.70	4.0	PVC Sch 40	SS	123-133	132	127	127
225	87.0	59.84	4.0	PVC Sch 40	SS	77-87	NI	NI	NI
220	163.5	59.84	4.0	PVC Sch 40	SS	153.5-163.5	162	144	144
230	159.0	58.10	4.0	PVC Sch 40	SS	149-159	158	150	150
240	159.0	58.00	4.0	PVC Sch 40	SS	149-159	157	146	146
270	148.0	72.22	4.0	PVC Sch 40	SS	138-148	NI	NI	NI

<sup>a</sup> The letters "S" and "D" associated with the monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

<sup>b</sup> Bgs = Below ground surface.

<sup>c</sup> Msl = Mean sea level.

<sup>d</sup> MW-190 is a non-network monitoring well, but is sampled periodically and therefore, was included in this table.

NA = Not available.

NI = Not installed.

SS = Stainless steel.

PVC = Polyvinyl chloride.

(Continued)

TABLE A-2. (Continued)

Well Number	Well Depth <sup>b</sup> (ft bgs)	Ground Surface Elevation (ft msl) <sup>c</sup>	Casing I.D. (inches)	Casing Material	Screen Material	Screen Intake Depth <sup>b</sup> (ft bgs)	Bladder Pump Depth <sup>b</sup> (ft bgs)	Purge Pump Intake <sup>b</sup> (ft bgs)
280	130.0	72.92	4.0	PVC Sch 40	SS	120-130	NI	NI
290	147.0	68.60	4.0	PVC Sch 40	SS	137-147	146	141
31S	102.0	65.80	4.0	PVC Sch 40	SS	82-102	NI	NI
33S	97.0	58.02	4.0	PVC Sch 40	SS	87-97	96	NI
34S	88.0	58.17	4.0	PVC Sch 40	SS	78-88	NI	NI
36S	92.0	56.80	4.0	PVC Sch 40	SS	82-92	91	NI
41S	110.0	64.00	4.0	PVC Sch 40	SS	100-110	109	NI
44S	93.0	53.70	4.0	PVC Sch 40	SS	83-93	92	NI
45S	90.0	60.64	4.0	PVC Sch 40	SS	80-90	NI	NI
51	192.0 <sup>d</sup>	63.89	6.0	Steel	SS	177-192	190	142
52	157.0 <sup>d</sup>	59.14	6.8	Steel	SS	147-157	156	139
53	141.0 <sup>d</sup>	64.21	7.6	Steel	SS	130-140	139	134
54	155.0 <sup>d</sup>	60.34	6.8	Steel	SS	142-152	151	144
55	145.0 <sup>d</sup>	66.52	7.2	Steel	SS	134-144	143	136
57	148.0	64.49	6.8	Steel	SS	137-147	146	132
58	187.0 <sup>d</sup>	59.83	6.2	Steel	SS	172-182	181	140
59	179.0	57.68	6.2	Steel	Steel	164-174	173	165
60	107.0	58.87	6.2	Steel	Steel	92-102	101	95
61	111.0	59.70	6.2	Steel	Steel	96-106	105	99

<sup>a</sup> The letters "S" and "D" associated with the monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

<sup>b</sup> Bgs = Below ground surface.

<sup>c</sup> Msl = Mean sea level.

<sup>d</sup> Well casing extended during construction of Area D cap. Depth shown is referenced to top of earthen cap and not to original ground surface.

NA = Not available.

NI = Not installed.

SS = Stainless steel.

PVC = Polyvinyl chloride.

(Continued)

TABLE A-2. (Continued)

Well Number <sup>a</sup>	Well Depth <sup>b</sup> (ft bgs)	Ground Surface Elevation <sup>c</sup> (ft msl)	Casing I.D. (inches)	Casing Material	Screen Material	Screen Intake Depth <sup>b</sup> (ft bgs)	Bladder Pump Depth <sup>b</sup> (ft bgs)	Purge Pump Intake <sup>b</sup> (ft bgs)
62	113.0	57.94	8.2	Steel	Steel	98-108	NI	NI
63	179.0	62.98	8.2	Steel	Steel	164-174	171	149
67	115.0	71.62	6.2	Steel	Steel	100-110	109	103
68	131.0	71.77	6.2	Steel	Steel	116-126	NI	NI
69	180.0 <sup>d</sup>	70.35	8.2	Steel	Steel	150-170	169	153
70	142.0	60.14	6.2	Steel	Steel	127-137	136	131
71	141.0	73.10	8.2	Steel	Steel	120-136	NI	NI
72	136.0 <sup>d</sup>	62.58	4.1	Steel	Steel	121-131	130	124
74	141.0	54.61	6.2	Steel	Steel	126-136	NI	NI
75	130.0	58.16	8.2	Steel	Steel	115-125	NI	NI
76	148.0	53.77	6.2	Steel	Steel	134-144	NI	NI
88	111.0	57.54	4.0	Steel	Steel	96-106	105	NI
89	113.0	59.11	4.0	Steel	Steel	98-108	107	NI
90	111.0	61.06	4.0	Steel	Steel	96-106	105	NI
91	107.0	56.15	4.0	Steel	Steel	92-102	101	NI
92	109.0	55.61	4.0	Steel	Steel	94-104	103	NI
100	174.8	78.94	4.0	SS/PVC	SS	164.8-174.8	174	157
101	119.5	78.27	4.0	SS/PVC	SS	109.5-119.5	119	NI
102	117.0	80.93	4.0	SS/PVC	SS	107-117	16	NI

<sup>a</sup> The letters "S" and "D" associated with the monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

<sup>b</sup> Bgs = Below ground surface.

<sup>c</sup> Msl = Mean sea level.

<sup>d</sup> Well casing extended during construction of Area D cap. Depth shown is referenced to top of earthen cap and not to original ground surface.

NA = Not available.

NI = Not installed.

SS = Stainless steel.

PVC = Polyvinyl chloride.

(Continued)

TABLE A-2. (Continued)

Well Number <sup>a</sup>	Well Depth <sup>b</sup> (ft bgs)	Ground Surface Elevation (ft msl) <sup>c</sup>	Casing I.D. (inches)	Casing Material	Screen Material	Screen Interval Intake Depth <sup>b</sup> (ft bgs)	Bladder Pump Depth <sup>b</sup> (ft bgs)	Purge Pump Intake <sup>b</sup> (ft bgs)
103	143.8	81.76	4.0	SS/PVC	SS	133.8-143.8	143	138
104	181.0	57.22	4.0	SS/PVC	SS	171-181	80	137
105	178.5	58.20	4.0	SS	SS	168.5-178.5	178	137
106	90.0	53.97	4.0	SS/PVC	SS	80-90	89	NI
107	90.0	51.97	4.0	SS/PVC	SS	79-90	89	NI
108	141.3	51.66	4.0	SS/PVC	SS	131.3-141.3	140	128
109	175.9	51.56	4.0	SS/PVC	SS	165.6-175.9	179	138
110	95.0	49.85	4.0	SS/PVC	SS	85-95	94	NI
111	99.5	50.04	4.0	SS/PVC	SS	89.5-99.5	99	94
112	168.0	49.94	4.0	SS/PVC	SS	158-168	167	128
113	125.0	50.43	4.0	SS/PVC	SS	115-125	138	133
114	90.5	53.82	4.0	SS/PVC	SS	80.5-90.5	90	NI
115	140.2	54.06	4.0	SS/PVC	SS	130.2-140.2	139	134
116	94.2	54.89	4.0	SS/PVC	SS	84.2-94.2	93	NI
120	105.0	62.22	2.0	SS/PVC	SS	95-105	104	NI
121	150.0	62.22	2.0	SS/PVC	SS	140-150	149	NI
122	208.0	62.42	2.0	SS/PVC	SS	198-208	207	NI
128	99.4	59.41	4.0	SS/PVC	SS	84.4-99.4	98	NI
129	137.8	59.46	4.0	SS/PVC	SS	127.8-137.8	137	129

<sup>a</sup> The letters "S" and "D" associated with the monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

<sup>b</sup> Bgs = Below ground surface.

<sup>c</sup> Msl = Mean sea level.

NA = Not available.

NI = Not installed.

SS = Stainless steel.

PVC = Polyvinyl chloride.

(Continued)

TABLE A-2. (Continued)

Well Number	Ground Surface		Casing I.D. (inches)	Casing Material	Screen Material	Screen Intake		Bladder Pump Depth <sup>b</sup> (ft bgs)	Purge Pump Intake <sup>b</sup> (ft bgs)
	Well Depth <sup>b</sup> (ft bgs)	Elevation <sup>c</sup> (ft msl)				Intake Depth <sup>b</sup> (ft bgs)	Interval <sup>b</sup> (ft bgs)		
130	189.0	59.21	4.0	SS/PVC	SS	179-189		188	144
131	99.5	59.18	4.0	SS/PVC	SS	84.5-99.5		99	NI
132	218.3	62.51	4.0	SS/PVC	SS	208.3-218.3		217	151
133	260.0	57.94	4.0	SS/PVC	SS	217-227, 237-247		215	116
134	185.0	58.38	4.0	SS/PVC	SS	165-175		156	116
135	130.0	57.94	4.0	SS/PVC	SS	109-119		108	116
136	255.0	57.77	4.0	SS/PVC	SS	230-245		235	116
138	254.3	60.44	4.0	SS/PVC	SS	210-220		205	116
139	121.0	56.65	4.0	SS/PVC	SS	100-110		101	111
142	180.0	57.46	4.0	SS/PVC	SS	160-170		158	116
143	193.0	59.40	4.0	SS/PVC	SS	173-183		171	116
1000	138.0	58.53	4.0	SS/PVC	SS	128-138		137	131
1001	166.5	51.25	4.0	SS/PVC	SS	156.5-166.5		165	129
1002	92.5	56.65	4.0	SS/PVC	SS	82.5-92.5		92	NI
1003	139.0	51.28	4.0	SS/PVC	SS	129-139		138	131
1004	92.5	51.62	4.0	SS/PVC	SS	82.5-92.5		91	NI
1005	90.0	51.26	4.0	SS/PVC	SS	80-90		89	NI
1009	92.5	57.82	4.0	SS/PVC	SS	82.5-92.5		91	NI
1010	143.0	51.63	4.0	SS/PVC	SS	138-148		147	131

<sup>a</sup> The letters "S" and "D" associated with the monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

<sup>b</sup> Bgs = Below ground surface.

<sup>c</sup> Msl = Mean sea level.

NA = Not available.

NI = Not installed.

SS = Stainless steel.

PVC = Polyvinyl chloride.

(Continued)

TABLE A-2. (Continued)

Well Number <sup>a</sup>	Well Depth <sup>b</sup> (ft bgs)	Ground Surface Elevation (ft msl) <sup>c</sup>	Casing I.D. (inches)	Casing Material	Screen Material	Screen Interval Intake Depth <sup>b</sup> (ft bgs)	Bladder Pump Depth <sup>b</sup> (ft bgs)	Purge Pump Intake <sup>b</sup> (ft bgs)
1011	95.4	54.75	4.0	SS/PVC	SS	85.4-95.4	94	NI
1012	107.0	78.64	4.0	SS/PVC	SS	97-107	106	NI
1013	99.0	57.34	4.0	SS/PVC	SS	89-99	98	NI
1014	105.5	66.47	4.0	SS/PVC	SS	95.5-105.5	104	NI
1015	141.0	59.54	4.0	SS/PVC	SS	131-141	140	134
1016	105.5	56.34	4.0	SS/PVC	SS	95.5-105.5	104	NI
1017	90.0	51.80	4.0	SS/PVC	SS	80-90	89	NI
1018	99.0	47.51	4.0	SS/PVC	SS	89-99	98	NI
1019	91.0	45.05	4.0	SS/PVC	SS	81-91	90	NI
1020	106.7	57.82	4.0	SS/PVC	SS	96.7-106.7	106	NI
1021	110.6	63.24	4.0	SS/PVC	SS	100.6-110.6	110	NI
1022	158.4	63.13	4.0	SS/PVC	SS	148.4-158.4	157	151
1023	116.5	52.96	4.0	SS/PVC	SS	106.5-116.5	115	NI
1024	146.5	53.17	4.0	SS/PVC	SS	136.5-146.5	145	139
1025	196.5	53.65	4.0	SS/PVC	SS	186.5-196.5	195	146
1026	101.5	59.57	4.0	SS/PVC	SS	91.5-101.5	100	NI
1027	140.0	59.53	4.0	SS/PVC	SS	130-140	139	131
1028	188.7	59.40	4.0	SS/PVC	SS	178.7-188.7	185	142
1029	86.8	50.37	4.0	SS/PVC	SS	76.8-86.8	86	NI

<sup>a</sup> The letters "S" and "M" associated with the monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

<sup>b</sup> bgs = Below ground surface.

<sup>c</sup> Msl = Mean sea level.

NA = Not available.

NI = Not installed.

SS = Stainless steel.

PVC = Polyvinyl chloride.

(Continued)

TABLE A-2. (Continued)

Well Number <sup>a</sup>	Well Depth <sup>b</sup> (ft bgs)	Ground Surface Elevation (ft msl) <sup>c</sup>	Casing I.D. (inches)	Screen Material	Screen Material	Screen Interval Intake Depth <sup>b</sup> (ft bgs)	Bladder Pump Depth <sup>b</sup> (ft bgs)	Purge Pump Intake <sup>b</sup> (ft bgs)
1030	158.7	50.17	4.0	SS/PVC	SS	148.7-158.7	158	129
1031	196.0	50.42	4.0	SS/PVC	SS	186-196	195	131
1032	157.9	47.23	4.0	SS/PVC	SS	147.9-157.9	157	131
1033	86.2	48.46	4.0	SS/PVC	SS	76.2-86.2	85	NI
1034	138.7	48.31	4.0	SS/PVC	SS	128.7-138.7	138	130
1035	198.3	48.57	4.0	SS/PVC	SS	188.3-198.3	197	132
1036	74.8	38.60	4.0	SS/PVC	SS	64.8-74.8	74	NI
1037	105.7	62.21	4.0	SS/PVC	SS	95.7-105.7	105	NI
1038	148.2	61.67	4.0	SS/PVC	SS	138.2-148.2	147	142
1039	200.7	61.74	4.0	SS/PVC	SS	190.7-200.7	200	147
1040	206.1	80.01	4.0	SS/PVC	SS	196.1-206.1	205	166
1041	110.9	48.03	4.0	SS/PVC	SS	100.9-110.9	110	104
1042	138.0	47.82	4.0	SS/PVC	SS	128-138	137	129
1043	195.0	47.91	4.0	SS/PVC	SS	185-195	194	129

<sup>a</sup> The letters "S" and "D" associated with the monitoring well numbers are part of the well identification notation and do not refer to monitoring zones at McClellan AFB.

<sup>b</sup> Bgs = Below ground surface.

<sup>c</sup> Msl = Mean sea level.

NA = Not available.

NI = Not installed.

SS = Stainless steel.

PVC = Polyvinyl chloride.

TABLE A-3. WELL-SPECIFIC DATA FOR EXTRACTION WELLS LOCATED ON MCCLELLAN AFB,  
SECOND QUARTER 1988 SAMPLING AND ANALYSIS PROGRAM

Well Number	Well Depth (ft bgs) <sup>a</sup>	Ground Surface Elevation <sup>b</sup> (ft msl)	Casing I.D. (inches)	Casing Material	Screen Material	Screen Interval Intake Depth (ft bgs) <sup>a</sup>	Submersible Pump Depth (ft bgs) <sup>a</sup>
EW-73	164	NA	8.0	Steel	SS	40-160	145
EW-83	172	NA	8.0	Steel	SS	40-160	145
EW-84	170	NA	8.0	Steel	SS	40-160	145
EW-85	170	NA	8.0	Steel	SS	40-160	145
EW-86	170	NA	8.0	Steel	SS	40-160	145
EW-87	170	NA	8.0	Steel	SS	40-160	145
EW-137	182.0	58.24	4.0	SS/PVC	SS	162-172	116
EW-140	200.0	56.58	4.0	SS/PVC	SS	180-190	116
EW-141	245.0	56.55	4.0	SS/PVC	SS	230-240	116
EW-144	195.0	NA	8.0	Steel	SS	120-130	135
						165-185	

<sup>a</sup> Bgs = Below ground surface.

<sup>b</sup> Msl = Mean sea level.

NA = Not available.

SS = Stainless steel.

ANUALTEC/040389/hmm



## APPENDIX A-4. SITE/LOCATION SPECIFIC DATA, MCCLELLAN AFB, CALIFORNIA

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
AREA A AND ADJACENT ON-BASE AREAS				
PSPRL 25	LANDFILL	40's-EARLY 50's	S END OF N/S RUNWAY	NONE DETECTED
PSPRL 37	LANDFILL	EARLY 50's	ADJ. TO TAXIWAY 7165	SOLVENTS
PSPRL 39	LANDFILL	PRE-41-46	S OF BLD 351	NONE DETECTED
PSPRL 40	INDUSTRIAL WASTEWATER SLUDGE DRYING BEDS	55-72	NE OF SANITARY WTP	SOLVENTS
SITE 38	UNDGRD TANKS/SLUDGE LANDFILL	50	BLD 475	SOLVENTS PRIORITY POLLUTANTS METALS
UPRL B-3	LANDFILL	UNKNOWN	UNDER BLD 251	SOLVENTS PETROLEUM PRODUCTS
UPRL B-4	SLUDGE DRYING BED	UNKNOWN	S OF BLD 344	SOLVENTS METALS
UPRL B-5	LANDFILL	UNKNOWN	S OF BLD 375	SOLVENTS PETROLEUM PRODUCTS
UPRL B-7	SPOIL AREA	UNKNOWN	N OF BLD 243	UNKNOWN
UPRL P-1	DRAINAGE DITCH/PONDS	UNKNOWN	W OF BLD 878	SOLVENTS PETROLEUM PRODUCTS
UPRL P-2	WASTE POND	UNKNOWN	S OF BLD 687	SOLVENTS PETROLEUM PRODUCTS
UPRL P-3	OIL PIT	UNKNOWN	S OF BLD 251	SOLVENTS PETROLEUM PRODUCTS
UPRL P-4	SUMP	UNKNOWN	E OF BLD 351	SOLVENTS PETROLEUM PRODUCTS
UPRL P-5	OPEN DITCH	UNKNOWN	N OF BLD 475	SOLVENTS OTHER
UPRL P-6	OPEN DITCH	UNKNOWN	N OF BLD 475	SOLVENTS OTHER

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location

## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
AREA A AND ADJACENT ON-BASE AREAS				
UPRL S-1	PLATING SHOP	UNKNOWN	IN BLD 343	SOLVENTS METALS CYANIDE
UPRL S-2	CHEMICAL WAREHOUSE	UNKNOWN	IN BLD 447	SOLVENTS
UPRL S-3	ACID STORAGE WRHS	UNKNOWN	W OF BLD 447	ACIDS
UPRL S-4	TREATMENT PLANT/SLUDGE BEDS	UNKNOWN	N OF BLD 431	SOLVENTS METALS PETROLEUM PRODUCTS
UPRL S-6	IWTP #1	UNKNOWN	E OF BLD 346	SOLVENTS METALS
UPRL S-7	IWTP #3	UNKNOWN	NE OF BLD 475	SOLVENTS METALS
UPRL S-8	ELECTROPLATING SHOP	UNKNOWN	IN BLD 243G	SOLVENTS METALS CYANIDE
UPRL S-14	PAINT SHOP/SPRAY BOOTH	UNKNOWN	BLD 22	SOLVENTS PETROLEUM PRODUCTS
UPRL S-15	DEGREASER/SPRAY BOOTHS	UNKNOWN	BLD 243	SOLVENTS PETROLEUM PRODUCTS
UPRL S-16	SOLVENTS, PAINT, SPRAY BOOTHS	UNKNOWN	BLD 250	SOLVENTS PETROLEUM PRODUCTS
UPRL S-17	REPAIR SHOP/SPRAY BOOTHS	UNKNOWN	BLD 251	SOLVENTS PETROLEUM PRODUCTS
UPRL S-18	REPAIR SHOP/CLEANING SHOP	UNKNOWN	BLD 252	SOLVENTS PETROLEUM PRODUCTS
UPRL S-19	ENTOMOLOGY STORAGE AREA	UNKNOWN	NE OF SANITARY WTP	PESTICIDES
UPRL S-20	PHOTO LAB	UNKNOWN	BLD 336	SOLVENTS METALS SILVER
UPRL S-21	DEGREASER/SPRAY BOOTHS	UNKNOWN	IN BLD 351	SOLVENTS PETROLEUM PRODUCTS

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location

## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
AREA A AND ADJACENT ON-BASE AREAS				
UPRL S-22	REPAIR SHOP/SPRAY BOOTHS	UNKNOWN	IN BLD 355	SOLVENTS PETROLEUM PRODUCTS
UPRL S-23	PLATING SHOP	UNKNOWN	IN BLD 358	SOLVENTS METALS CYANIDE
UPRL S-24	DEPAINT WASHRACK	UNKNOWN	AT BLD 375	SOLVENTS PETROLEUM PRODUCTS
UPRL S-25	TRANSFORMER SHOP	UNKNOWN	BLD 440	PCB SOLVENTS PETROLEUM PRODUCTS
UPRL S-26	MAINT. SHOP/SPRAY BOOTHS	UNKNOWN	BLD 473	SOLVENTS PETROLEUM PRODUCTS
UPRL S-27	SOLV. RECOVERY STILL	UNKNOWN	BLD 478	SOLVENTS
UPRL S-36	OIL DRUM STORAGE	UNKNOWN	N OF BLD 410	SOLVENTS PETROLEUM PRODUCTS
UPRL S-37	OIL DRUM STORAGE	UNKNOWN	N OF BLD 410	SOLVENTS PETROLEUM PRODUCTS
UPRL S-38	DRUM STORAGE	UNKNOWN	N OF BLD 431	SOLVENTS
UPRL S-39	NEW MUSEUM SITE	UNKNOWN	DUDLY BLVD/PALM ST	SOLVENTS
UPRL T-10	SOLVENT TANK	UNKNOWN	BLD 362	SOLVENTS
UPRL T-12	WASTE OIL/SOLVENT TANK	UNKNOWN	BLD 342	SOLVENTS
UPRL T-15	TANK FARM	UNKNOWN	N OF BLD 447	SOLVENTS PETROLEUM PRODUCTS
UPRL T-16	TANK FARM	UNKNOWN	N OF BLD 475	SOLVENTS PETROLEUM PRODUCTS
UPRL T-17	TANK FARM	UNKNOWN	S OF BLD 350	SOLVENTS PETROLEUM PRODUCTS
UPRL T-18	TANK FARM	UNKNOWN	E OF BLD 343	SOLVENTS PETROLEUM PRODUCTS

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location

## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
AREA A AND ADJACENT ON-BASE AREAS				
UPRL T-19	TANK FARM	UNKNOWN	E OF BLD 344	SOLVENTS PETROLEUM PRODUCTS
UPRL T-20	TANK FARM	UNKNOWN	SW OF BLD 475	SOLVENTS PETROLEUM PRODUCTS
UPRL T-21	UNDERGROUND SOLVENT TANK	UNKNOWN	W OF BLD 342	SOLVENTS PETROLEUM PRODUCTS
UPRL T-30	UNDERGROUND SOLVENT TANK	UNKNOWN	S OF BLD 252	SOLVENTS
UPRL T-36	500 GAL. STODDARD SOLV. TANK	UNKNOWN	NEAR BLD 329	SOLVENTS
UPRL T-37	STODDARD SOLVANT TANK	UNKNOWN	S OF BLD 360	SOLVENTS
UPRL T-47	OIL/WATER SEPERATOR	UNKNOWN	E OF BLD 346A	PETROLEUM PRODUCTS
AREA B AND ADJACENT ON-BASE AREAS				
PSPRL 30	RADIO/CHEM LAB LANDFILL	LATE 50's-EARLY 80's	E OF BLD 628	SOLVENTS METALS
PSPRL 35	SCRAP METAL BURIAL PIT	WWII	BLD 652	NONE DETECTED
PSPRL 36	OPEN STORAGE AREA	58-80	N OF BLD 666	SOLVENTS CYANIDE
SITE 47	ABANDON PLATING SHOP	UNKNOWN	BLD 666	SOLVENTS METALS
SITE 48	ABANDON IWTP	UNKNOWN	IWTP#4	SOLVENTS METALS OIL/GREASE
UPRL B-1	LANDFILL	UNKNOWN	E OF BLDG 700	UNKNOWN
UPRL P-9	OPEN DRAINAGE DITCH	UNKNOWN	N OF BLD 660	SOLVENTS METALS
UPRL S-5	IWTP	UNKNOWN	N OF BLD 652	SOLVENTS METALS
UPRL S-9	ASBESTOS STORAGE	UNKNOWN	E OF BLD 642	ASBESTOS

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location

## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
AREA B AND ADJACENT ON-BASE AREAS				
UPRL S-12	PCB STORAGE	UNKNOWN	BLD 624	PCB
UPRL S-13	OPEN STORAGE	UNKNOWN	BLDS 709,727,729	SOLVENTS
UPRL S-28	OIL/PAINT STORAGE	UNKNOWN	N OF BLD 600	OIL/GREASE
UPRL S-29	PCB STORAGE	UNKNOWN	IN BLD 655	PCB
UPRL S-30	DEPAINT WASHRACK	UNKNOWN	BLD 658	SOLVENTS PETROLEUM PRODUCTS
UPRL S-33	HAZ. MAT. STORAGE	UNKNOWN	BLD 786	SOLVENTS OTHER
UPRL S-34	DEGREASER/PAINT SPRAY BOOTH	UNKNOWN	BLD 652	SOLVENTS OTHER
UPRL S-35	SOLV. SPRAY BOOTH	UNKNOWN	BLD 654	SOLVENTS OTHER
UPRL S-41	MAT K DRAINAGE	UNKNOWN	S OF BLD 711	SOLVENTS PETROLEUM PRODUCTS LEAD
UPRL T-6	UNDERGROUND SOLVENT TANK	UNKNOWN	BLD 640	SOLVENTS
UPRL T-7	SOLV. PIT/WASTE THINNER TANK	UNKNOWN	BLD 640	SOLVENTS
UPRL T-8	CONTAM. FUEL TANK	UNKNOWN	BLD 756	PETROLEUM PRODUCTS SOLVENTS
UPRL T-45	OIL/WATER SEPARATOR	UNKNOWN	N OF BLD 74	PETROLEUM PRODUCTS
UPRL T-46	OIL/WATER SEPARATOR	UNKNOWN	S OF BLD 764	PETROLEUM PRODUCTS
UPRL T-48	OIL/WATER SEPARATOR	UNKNOWN	S OF BLD 765	PETROLEUM PRODUCTS
AREA C AND ADJACENT ON-BASE AREAS				
SITE 7	SLUDGE/OIL PIT	62-74	E OF BLD 701	PRIORITY POLLUTANTS OIL/GREASE PCB
PSPRL 8	SLUDGE/REFUSE LANDFILL	74-81	NW OF BLD 774	SOLVENTS PRIORITY POLLUTANTS

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location

## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
AREA C AND ADJACENT ON-BASE AREAS				
PSPRL 9	LANDFILL	PRE-49-53	W OF BLD 774	PRIORITY POLLUTANTS
SITE 10	LANDFILL	53-55	W OF BLD 774	PRIORITY POLLUTANTS PCB
SITE 11	LANDFILL	55-57	W OF BLD 774	PRIORITY POLLUTANTS
SITE 12	LANDFILL	67-69	SW OF BLD 774	PRIORITY POLLUTANTS
SITE 13	LANDFILL	69-71	W OF BLD 774	PRIORITY POLLUTANTS
SITE 14	LANDFILL	71-74	S OF BLD 701	PRIORITY POLLUTANTS
PSPRL 15	SODIUM VALVE TRENCH	40-50	SW OF BLD 774	NONE DETECTED
PSPRL 16	SODIUM VALVE TRENCH	40-50	S OF BLD 701	NONE DETECTED
PSPRL 17	LANDFILL	57-59	SE OF BLD 704	SOLVENTS
PSPRL 18	LANDFILL	57-59	SE OF BLD 704	NONE DETECTED
PSPRL 19	LANDFILL	57-59	SE OF BLD 704	NONE DETECTED
PSPRL 20	SLUDGE/OIL PIT	56-57	SE OF BLD 704	SOLVENTS
PSPRL 21	SLUDGE/OIL PIT	56-57	SE OF BLD 704	SOLVENTS
SITE 22	BURN PIT/LANDFILL	46-68	S OF IWTP AERA. BSN	PRIORITY POLLUTANTS PCB OIL/GREASE
PSPRL 28	SLUDGE PIT	PRE-72	W OF IWTP	PRIORITY POLLUTANTS
PSPRL 32	RADIO/HAZ WASTE STORAGE	PRE-63-68	S OF IWTP	PRIORITY POLLUTANTS
PSPRL 41	LANDFILL	MID-40's	BLD 704	PRIORITY POLLUTANTS METALS
SITE 42	OIL STORAGE/LANDFILL	MID-40's-60's	IWTP AERATION BASIN	PRIORITY POLLUTANTS OIL/GREASE PCB
SITE 43	LANDFILL	MID-40's	NW OF BLD 704	PRIORITY POLLUTANTS
PSPRL 49	LANDFILL	50's	NE OF BLD 704	NONE DETECTED

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location

## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
AREA C AND ADJACENT ON-BASE AREAS				
PSPRL 50	SETTLING POND	MID-TO-LATE 50's	NW OF BLD 704	NONE DETECTED
PSPRL 51	HOLDING POND	80 TO PRESENT	NW OF IWTP	NONE DETECTED
SITE 52	BURN DEBRIS PIT	57	NW OF BLD 704	PRIORITY POLLUTANTS
PSPRL 53	SETTLING POND	MID-TO-LATE 50's	NW OF BLD 704	SOLVENTS
PSPRL 54	STORAGE AREA	MID-60's	S OF BLD 704	NONE DETECTED
PSPRL 55	ACID STORAGE AREA/LANDFILL	MID-50's	S OF BLD 704	SOLVENTS
PSPRL 56	STORAGE AREA	50's-60's-70's	S OF BLD 704	NONE DETECTED
PSPRL 57	LANDFILL	50's-60's	S OF BLD 704	NONE DETECTED
PSPRL 60	HOLDING POND	CURRENT	S OF IWTP	NONE DETECTED
PSPRL 61	CHEMICAL WASTE PIT	54	E OF BLD 722	NONE DETECTED
PSPRL 62	CHEMICAL WASTE PIT	54	E OF BLD 722	NONE DETECTED
PSPRL 63	UNLINED DITCH	60's	SE OF BLD 704	NONE DETECTED
PSPRL 64	UNLINED DITCH	60's	SE OF BLD 704	NONE DETECTED
PSPRL 65	LANDFILL	65	E OF BLD 692	NONE DETECTED
PSPRL 66	DITCHES AND POND	MID-60's	W OF BLD 721	NONE DETECTED
SITE 67	LANDFILL	PRE-47	NW OF BLD 702	PRIORITY POLLUTANTS PETROLEUM PRODUCTS
PSPRL 68	SLUDGE PONDS	40's	W OF SITE 42	PRIORITY POLLUTANTS
SITE 69	BURN PIT	50's	SE OF BLD 704	PRIORITY POLLUTANTS
UPRL S-11	BCE/PCE STORAGE	UNKNOWN	BLD 636	PCB SOLVENTS PETROLEUM PRODUCTS
UPRL S-31	AIRCRAFT PAINT HANGAR	UNKNOWN	BLD 692	PAINTS SOLVENTS PETROLEUM PRODUCTS

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location

## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
-----				
AREA C AND ADJACENT ON-BASE AREAS				
-----				
UPRL S-32	PAINT STORAGE AREA	UNKNOWN	BLD 694	PAINTS SOLVENTS PETROLEUM PRODUCTS
AREA D AND ADJACENT ON-BASE AREAS				
-----				
SITE 1	LANDFILL	59-62	NW CORNER OF BASE	PRIORITY POLLUTANTS
SITE 2	SLUDGE/OIL PIT	62-79	NW CORNER OF BASE	PRIORITY POLLUTANTS
SITE 3	SLUDGE/OIL PIT	62-65	NW CORNER OF BASE	PRIORITY POLLUTANTS
SITE 4	SLUDGE/OIL PIT	67-81	NW CORNER OF BASE	PRIORITY POLLUTANTS
SITE 5	SLUDGE/OIL PIT	72-78	NW CORNER OF BASE	PRIORITY POLLUTANTS
SITE 6	OIL BURN PIT	72-78	NW CORNER OF BASE	SOLVENTS METALS
PSPRL 27	SODIUM VALVE TRENCH	LATE 40's-EARLY 50's	BLD 1085	NONE DETECTED
PSPRL 33	I W SLUDGE LANDFARM	72	NW CORNER OF BASE	SOLVENTS
SITE 26	SLUDGE/OIL BURN PIT	EARLY 60's	NW CORNER OF BASE	SOLVENTS METALS
SITE A	SLUDGE DISPOSAL PIT	60's	NW CORNER OF BASE	SOLVENTS PRIORITY POLLUTANTS METALS
SITE S	FUEL/SOLVENT/OILBURN PIT	62-68	NW CORNER OF BASE	SOLVENTS PRIORITY POLLUTANTS PETROLEUM PRODUCTS
SITE T	FUEL/SOLVENT SLUDGE PIT	64-66	NW CORNER OF BASE	SOLVENTS PRIORITY POLLUTANTS METALS PETROLEUM PRODUCTS
UPRL T-11	UNDERGROUND STORAGE TANK	UNKNOWN	BLD 1093	SOLVENTS

IWTP = Industrial Waste Treatment Plant  
 UPRL = Unstudied Potential Release Location  
 PSPRL = Partially Studied Potential Release Location



## APPENDIX A-4. (continued)

Site/ Location ID	Description	Years of Operation	Location	Contaminant Types
OTHER ON-BASE AREAS				
PSPRL 29	LANDFILL	50's-60's	NE OF BLD 700	NONE DETECTED
PSPRL 31	INCINERATOR ASH BURIAL PIT	63-68	NEAR BLD 680	ARSENIC
PSPRL 34	WASTE SOLVENT STORAGE TANKS	50-53	ADJ. TO TAXIWAY 7165	SOLVENTS OIL/GREASE
SITE 23	LANDFILL	66-69	BLD 781	PRIORITY POLLUTANTS
SITE 24	LANDFILL	66-69	E OF BLD 621	PRIORITY POLLUTANTS
UPRL B-6	WASTE AREA	UNKNOWN	N OF N/S RUNWAY	UNKNOWN
UPRL P-7	OPEN DITCH	UNKNOWN	NE, TO AREA D	PETROLEUM PRODUCTS
UPRL P-8	ACID AND CYANIDE PIT	UNKNOWN	S END OF N/S RUNWAY	ACID METALS
UPRL S-10	STORAGE AREA	UNKNOWN	NW OF BLD 1086	SOLVENTS RADIATION
UPRL S-40	TROOP ISSUE SITE	UNKNOWN	NW OF BLD 910	UNKNOWN
UPRL S-42	HOBBY SHOP/M&R WASHRACK	UNKNOWN	N OF BLD 1439	SOLVENTS PETROLEUM PRODUCTS
UPRL S-43	AIRCRAFT WASHRACK	UNKNOWN	NE CORNER OF MAT V	SOLVENTS PETROLEUM PRODUCTS
UPRL S-44	AIRCRAFT MAINT. AREA	UNKNOWN	S OF BLD 1071/MAT U	SOLVENTS PETROLEUM PRODUCTS
UPRL S-45	AIRCRAFT MAINT. AREA	UNKNOWN	W OF BLD 878	SOLVENTS PETROLEUM PRODUCTS
UPRL T-31	UNDERGROUND STORAGE TANK	UNKNOWN	NEAR BLD 1028	SOLVENTS
UPRL T-32	UNDERGROUND STORAGE TANK	UNKNOWN	NEAR BLD 1023	SOLVENTS
UPRL T-33	UNDERGROUND STORAGE TANK	UNKNOWN	NEAR BLD 1021	SOLVENTS
UPRL T-44	STODDARD SOLVENT TANK	UNKNOWN	NW OF BLD 1048	SOLVENTS
IWTP = Industrial Waste Treatment Plant UPRL = Unstudied Potential Release Location PSPRL = Partially Studied Potential Release Location				

APPENDIX B

COMPILATION OF AVAILABLE SAMPLE ANALYSES

THIS PAGE INTENTIONALLY BLANK

RESULTS FOR METHOD 8010

(METHOD 601 PRIOR TO OCTOBER 1988)

THIS PAGE INTENTIONALLY BLANK

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			BM-10	BM-10	BM-10	BM-13	BM-13	BM-13	BM-18	BM-18	BM-18	BM-29
Date Sampled			12/02/85	03/26/86	12/04/86	12/02/85	03/26/86	12/04/86	12/02/85	03/26/86	12/04/86	12/02/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/11/85	03/31/86	12/09/86	12/11/85	03/31/86	12/08/86	12/11/85	03/31/86	12/08/86	12/11/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LIB									
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	40	NO	9.5	NO	NO	NO	NO	NO	4.0	NO	NO
Trichloroethene	3400	NE	NO	NO	NR	NO	NO	NR	NO	NO	0.49IL	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	0.72	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	0.11IL	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	3.5	NO	25C	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	0.58IL	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS #/GAL

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LIB = Second laboratory duplicate analysis  
 BW = Base production well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 ILQ = Limit of quantitation  
 IL = Diluted out of the confirmation run  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	BM-29	BM-29	BM-29	BM-29	BM-29	BM-29	BM-29	BM-29	BM-29	BM-29
	Level	MC										
Date Sampled			03/27/86	03/27/86	03/27/86	03/27/86	12/04/86	12/04/86	11/20/79	11/15/79	03/18/82	11/13/79
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN				
Date Analyzed			04/03/86	04/03/86	04/03/86	04/03/86	12/08/86	12/09/86				11/14/79
Lab			SAC	SAC	SAC	SAC	SAC	SAC				
Field Analysis			LDA	LDA	LDA	LDA	LDA	LDA				
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

CH = City of Sacramento Municipal Supply Well

BM = Base production well

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				04-150	04-150	04-150	04-150	04-150	04-150	04-150	04-150	04-150	04-150
Date Sampled				11/15/79	11/14/79	11/21/79	02/27/80	03/03/80	03/10/80	07/17/81	06/21/82	06/23/82	06/24/82
Date Analyzed													
Lab													
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NE	2.3	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethene	10	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	4.3	5.8	7.2	5.1	5.1	6.1	6.1	0.3	0.6	2.3	2.3
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodifluoromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = City of Sacramento Municipal Supply Well

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



[illegible]

ALL UNITS ARE W/1

TH - Extraction Well

OW - City of Sacramento Municipal Supply Well

LOW - Carry on sales and marketing supply needs

**RADIAN = Radian Corporation, Sacramento**

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in s

LOQ = Limit of quantitation

NE = Not established

Analytical data for Et-63 and Et-69 appear under M-63 and M-69

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-83
Date Sampled			02/01/88	03/01/88	05/03/88	05/03/88	06/07/88	08/03/88	09/02/88	11/03/88	12/02/88	11/03/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/02/88	03/13/88	05/05/88	05/05/88	06/10/88	08/08/88	09/06/88	11/09/88	12/06/88	11/06/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						CES						
Lab Analysis									LDA			
									LDB			
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	1400C	1500C	2300FC	850C	1100P	920P	360P	1200P	1100P	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	1000C	ND	ND	0.6C	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	1200C	9100C	1400FC	7900C	11000	6300P	400P	1000P	7500P	660C
1,1-Dichloroethene	20	NE	1400C	1000C	600FC	980C	500P	1100P	270P	1500P	890P	ND
Total 1,2-Dichloroethane	16	NE	2200C	1500C	1400FC	37C	1000P	950P	500P	1500P	900P	ND
Chloroform	100	100	ND	ND	ND	36C	ND	ND	ND	ND	ND	14C
1,2-Dichloroethane	1	5	130C	42C	ND	80C	ND	780P	670P	1000P	760P	78C
1,1,1-Trichloroethane	200	200	2000C	1300C	2200FC	990C	1100P	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	1400C	1100C	1700FC	1200C	1300P	1100P	790P	1600P	1200P	76C
Dibromochloromethane	100	100	ND	ND	ND	67C	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofom	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	37C	ND	25C	ND	ND	ND	ND	ND	16C
Chlorobenzene	30	NE	ND	ND	ND	3.5C	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	28C	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

EA = Extraction Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canone Environmental Services

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or FC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			EA-83	EA-83	EA-83	EA-83	EA-83	EA-83	EA-83	EA-83	EA-83	EA-84
Date Sampled			12/02/87	02/01/88	03/01/88	05/03/88	06/07/88	08/03/88	09/02/88	10/03/88	11/03/88	11/03/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/08/87	02/02/88	03/13/88		06/10/88	08/08/88	09/06/88	10/04/88	11/14/88	11/06/87
Lab			SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	930C
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoroethane	3400	NE	ND	110C	ND	0.6C	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	370C	550C	690C	520C	920P	690P	570P	500P	450P	1600C
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	180C
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	460C
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	130C
1,1,1-Trichloroethane	200	200	36C	74C	48C	46C	110P	43P	54P	44P	110P	330C
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	44C	60C	57C	66C	120P	140P	73P	44P	63P	1100C
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	8.9C	6.9C	6.9C	27P	58P	5.9P	5.4P	ND	15C
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	39C
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA

ALL UNITS ARE ug/l  
 EA = Extraction Well  
 RADIAN = Radian Corporation, Sacramento  
 CES = Carville Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			EA-84	EA-84	EA-84	EA-84	EA-84	EA-84	EA-84	EA-84	EA-85	EA-85
Date Sampled			12/02/87	02/01/88	03/01/88	05/03/88	06/07/88	09/02/88	10/28/88	11/03/88	12/02/88	11/03/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/08/87	02/02/88	03/13/88	05/13/88	06/10/88	09/06/88	11/02/88	11/14/88	12/06/88	11/06/87
Lab			SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												LDA
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	850C	330C	650C	280C	260P	310P	560P	620P	400P	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	350C	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	1200C	1300C	1600C	1100C	1600P	1200P	1200P	1100P	1000P	2200C
1,1-Dichloroethane	20	NE	140C	170C	240C	210C	120P	310P	290P	380P	180P	14C
Total 1,2-Dichloroethene	16	NE	390C	253C	290C	3.0C	230P	290P	240P	270P	190P	38C
Chloroform	100	100	ND	ND	ND	13C	ND	ND	ND	ND	ND	5.2C
1,2-Dichloroethane	1	5	84C	11C	108C	79C	110P	140P	88P	120P	64P	17C
1,1,1-Trichloroethane	200	200	160C	24.4C	180C	120C	200P	170P	100P	110P	70P	630C
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	720C	940C	1100C	1200C	1100P	1300P	1100P	1100P	900P	1400C
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	5.7C	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	2.6C	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	42C	ND	51P	ND	40P	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA

ALL UNITS ARE ug/l

EA = Extraction Well

LDA = First Laboratory duplicate analysis

LB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Carline Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled By	Date Analyzed	Lab	Field Analysis Lab Analysis	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
							EA-85	EA-85	EA-85	EA-85	EA-85	EA-85	EA-85	EA-85	EA-85	EA-86
Chloroethane	12/02/87	RADIAN	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	12/02/87	RADIAN	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	12/02/87	RADIAN	2	1	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	12/02/87	RADIAN	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	12/02/87	RADIAN	40	NE	NE	NE	210C	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	12/02/87	RADIAN	3400	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	12/02/87	RADIAN	6	7	NE	NE	1800C	1200C	1600C	1300C	2100P	1100P	780C	880C	880P	130C
1,1-Dichloroethane	12/02/87	RADIAN	20	NE	NE	NE	13C	NO	NO	29C	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	12/02/87	RADIAN	16	NE	NE	NE	18C	NO	NO	9.0C	14P	NO	NO	NO	NO	NO
Chloroform	12/02/87	RADIAN	100	NE	NE	NE	NO	NO	NO	6.4C	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	12/02/87	RADIAN	1	5	NE	NE	NO	NO	13C	14C	NO	15C	9.6C	16C	NO	NO
1,1,1-Trichloroethane	12/02/87	RADIAN	200	NE	NE	NE	410C	320C	280C	220C	390P	240P	160C	140C	210P	95C
Carbon tetrachloride	12/02/87	RADIAN	5	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	12/02/87	RADIAN	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	12/02/87	RADIAN	10	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	12/02/87	RADIAN	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	12/02/87	RADIAN	5	5	NE	NE	1200C	840C	1000C	1200C	1300P	1100P	500C	680C	650P	34C
Dibromochloroethane	12/02/87	RADIAN	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	12/02/87	RADIAN	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	12/02/87	RADIAN	87	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	12/02/87	RADIAN	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofluor	12/02/87	RADIAN	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	12/02/87	RADIAN	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	12/02/87	RADIAN	4	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	12/02/87	RADIAN	30	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	12/02/87	RADIAN	130	NE	NE	NE	NO	NO	1.2C	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	12/02/87	RADIAN	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	12/02/87	RADIAN	(LOQ)0.5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	12/02/87	RADIAN	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 EA = Extraction Well  
 RADIAN = Radian Corporation, Sacramento  
 CES = Canole Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or FC = Identity previously confirmed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DEFS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			EA-86	EA-86	EA-86	EA-86	EA-86	EA-86	EA-86	EA-86	EA-86	EA-87
Date Sampled			12/02/87	02/01/88	03/01/88	05/03/88	06/07/88	08/03/88	09/02/88	10/06/88	11/03/88	12/02/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/08/87	02/02/88	03/14/88	03/14/88	06/10/88	08/08/88	09/06/88	10/07/88	11/14/88	12/06/88
Lab			SAC	SAC	SAC	CSS	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	94C	150C	150C	86C	170P	140P	120P	50P	94P	61P
1,1-Dichloroethane	20	NE	NO	NO	NO	0.7C	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	65C	72C	80C	44C	88P	68P	72P	50P	43P	22P
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	34C	53C	61C	52C	67P	77P	80P	43P	50P	34P
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

EA = Extraction Well

RADIAN = Radian Corporation, Sacramento

CSS = Cerrito Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			EA-87	EA-87	EA-87	EA-87	EA-87	EA-87	EA-87	EA-87	EA-87	EA-87	EA-137	
Date Sampled			12/02/87	02/01/88	03/01/88	05/03/88	06/07/88	08/04/88	09/02/88	10/03/88	11/03/88	12/02/88		02/10/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT		RADIANT
Date Analyzed			12/08/87	02/02/88	03/14/88	05/10/88	06/10/88	08/10/88	09/06/88	10/04/88	11/14/88	12/07/88		02/11/88
Lab			SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC		SAC
Field Analysis														
Lab Analysis														
Chloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	7.6C	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Dichloroethane	6	7	41C	82C	92C	65C	150P	140P	140P	130C	120P	150C	ND	ND
1,1,1-Dichloroethane	20	NE	ND	ND	ND	0.6C	ND	ND	ND	0.51C	ND	1.5C	7.7C	ND
Total 1,2-Dichloroethane	16	NE	ND	0.93C	1.1C	ND	1.3P	1.4P	1.7P	2.6C	4.7P	3.0C	7.0C	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	1.5C	6.6P	5.6P	9.8P	9.3C	8.0P	9.9C	ND	ND
1,1,1-Trichloroethane	200	200	ND	2.4C	3.0C	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE		NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	8.2C	16C	25C	21C	42P	51P	62P	39C	57P	49C	350C	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE		NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE		NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE		NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
NA = Extraction Well

RADIANT = Radiant Corporation, Sacramento  
CES = Carleton Environmental Services  
SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
P or FC = Identity previously confirmed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHYLED BOD ANALYSES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DSS	U.S. EPA	Action	Primary	BA-137	BA-137	BA-137	BA-137	BA-137	BA-140	BA-140	BA-140	BA-140
			Level	MCL									
Date Sampled					04/25/88	07/14/88	07/14/88	07/14/88	07/14/88	02/09/88	04/20/88	07/07/88	10/14/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					04/27/88	07/15/88	07/15/88	07/15/88	07/15/88	02/10/88	04/22/88	07/08/88	10/18/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis						LDA	LDA	LDA	LDA				
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200			NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

BA = Extraction Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 CES = Ceramite Environmental Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or FC = Identity previously confirmed  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			BM-141	BM-141	BM-141	BM-141	MA-6	MA-7	MA-9	MA-10	MA-10	MA-10
Date Sampled			02/09/88	04/19/88	07/08/88	10/14/88	06/13/85	05/31/85	06/16/85	06/20/85	04/07/88	07/22/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/10/88	04/22/88	07/11/88	10/18/88	06/18/85	06/04/85	06/19/85	06/24/85	CES	07/26/88
Lab			SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS	CES	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	400C	100C
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	0.6C	ND
Trichloroethene	3400	NE	2.7C	ND	ND	ND	ND	ND	ND	56.3	ND	ND
1,1-Dichloroethane	6	7	1.2C	ND	1.3C	ND	ND	ND	0.4	1500	910C	900C
1,1-Dichloroethene	20	NE	5.3C	3.8C	4.7C	3.7P	ND	ND	ND	118	230C	180C
Total 1,2-Dichloroethane	16	NE	41C	60C	56C	42P	ND	ND	0.9	ND	12C	460C
Chloroform	100	100	ND	ND	ND	ND	ND	5.6	40.0	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	0.2	94.7	390C	270C
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	327	36C	23C
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	1.4C	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	90C	150C	160C	160P	86.2	38.2	134	826	1500C	1200C
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	64.9	2.4C	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	7.0C	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	69.8	200C	85C
1,4-Dichlorobenzene	(LUD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	210C	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND

ALL UNITS ARE ug/l

MA = Monitoring Well  
BM = Extraction Well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
CES = Caronde Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
100 = Limit of quantitation  
P or PC = Identity previously confirmed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	MW	WELL NUMBER									
						M4-11	M4-11	M4-11	M4-12	M4-12	M4-12	M4-14	M4-14	M4-14	M4-14
Date Sampled						06/20/85	04/06/88	07/25/88	06/19/85	04/07/88	07/26/88	10/21/88	06/19/85	04/06/88	07/22/88
Sampled by						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed						06/24/85	06/24/85	07/26/88	06/21/85	06/21/85	07/27/88	10/26/88	06/21/85	07/26/88	10/21/88
Lab						RAS	CES	SAC	RAS	CES	SAC	SAC	RAS	CES	SAC
Field Analysis															
Lab Analysis															
Chloroethane	NE	NE				U	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1				NO	13C	NO	NO	NO	NO	NO	NO	1.4C	NO
Chloroethene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE				3140	260C	NO	NO	NO	NO	11400	13C	NO	NO
Trichloroethene	3400	NE				NO	9.6C	NO	NO	5.7C	NO	NO	2.5C	NO	NO
1,1-Dichloroethene	6	7				64300	17000C	20000C	25500	8400C	22000P	4000P	22600	5700C	13000P
1,1-Dichloroethane	20	NE				3560	500C	NO	NO	29C	NO	NO	NO	49C	NO
Total 1,2-Dichloroethane	16	NE				NO	51C	NO	NO	14C	NO	NO	27C	NO	NO
Chloroform	100	100				NO	33C	NO	NO	1.6C	NO	NO	220	34C	NO
1,2-Dichloroethane	1	5				NO	86C	NO	NO	1200C	4500P	590P	2790	3100C	3200P
1,1,1-Trichloroethane	200	200				18100	3800C	2700C	12400	NO	NO	NO	22800	NO	NO
Carbon tetrachloride	5	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5				11900	6200C	2900C	12100	2500C	6900P	1200P	26600	6500C	3900P
Dibromochloroethane	100	100				NO	3.2C	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE				NO	NO	NO	NO	2.2C	NO	NO	NO	4.4C	NO
2-Chloroethylvinyl ether	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodioxane	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE				2480	25C	NO	1260	200C	610P	70P	NO	7.6C	NO
Chlorobenzene	30	NE				NO	9.2C	NO	NO	NO	NO	NO	NO	8.2C	NO
1,3-Dichlorobenzene	130	NE				NO	1.8C	NO	NO	NO	NO	NO	NO	6.4C	NO
1,2-Dichlorobenzene	130	NE				NO	5.1C	NO	NO	NO	NO	NO	NO	2.5C	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE				NO	2.0C	NO	NO	NO	NO	NO	NO	1.4C	NO
1,1,1,2-Tetrachloroethane	NE	NE				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
CES = Cerro Environmental Services  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
P or RC = Identity previously confirmed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER					M4-17D	M4-17D	M4-17D	M4-17D	M4-17D	M4-17D
			Action	Primary	MCL	M4-15	M4-15	M4-16S	M4-17D	M4-17D	M4-17D	M4-17D	M4-17D
Date Sampled						06/16/85	04/06/88	07/22/88	10/20/88	06/14/85	05/30/85	05/14/87	08/11/87
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed						06/19/85	07/26/88	07/26/88	10/21/88	06/19/85	05/31/85	05/18/87	06/17/87
Lab						RAS	CES	SAC	SAC	RAS	RAS	SAC	SAC
Field Analysis											FTA		
Lab Analysis											FTB		
Chloroethane	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	NE	NE	NE	1.5C	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	NE	NE	NE	1790	0.7C	ND	ND	ND	ND	ND	ND
Trichloroethane	3400	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	NE	NE	NE	16500	83C	800C	850C	ND	ND	ND	0.32C
1,1-Dichloroethane	20	NE	NE	NE	NE	1780	24C	ND	13C	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	NE	NE	NE	ND	4.1C	ND	ND	ND	ND	ND	0.22C
Chloroform	100	100	NE	NE	NE	ND	2.7C	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	NE	NE	NE	ND	6.8C	5.6C	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	NE	NE	NE	4100	110C	110C	300C	ND	ND	ND	ND
Carbon tetrachloride	5	5	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	NE	NE	NE	18000	550C	590C	400C	ND	ND	ND	0.39C
Dibromochloroethane	100	100	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA

ALL UNITS ARE ug/l

MJ = Monitoring Well

FTA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

CES = Cerro Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	WELL NUMBER									
			M4-17D	M4-17D	M4-17D	M4-17S	M4-18D	M4-18D	M4-18D	M4-18D	M4-18D	M4-18D
Date Sampled			01/27/88	04/08/88	07/21/88	10/18/88	06/05/85	06/14/85	03/28/86	10/01/86	01/12/87	04/29/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/29/88	04/11/88	07/25/88	10/20/88	06/07/85	06/19/85	04/01/86	10/02/86	01/19/87	05/01/87
Lab			SAC	SAC	SAC	SAC	RAS	RAS	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDB				
Lab Analysis												
Chloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	16	ND	ND	ND
Trichloroethers	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethers	6	7	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND
1,1-Dichloroethers	20	NE	ND	ND	ND	ND	ND	ND	ND	0.25	ND	ND
Total 1,2-Dichloroethers	16	NE	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND
Chloroethers	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethers	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethers	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethers	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethers	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethers	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethers	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethers	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethers	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethers	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzenes	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzenes	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzenes	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzenes	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethers	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

ALL UNITS ARE  $\mu\text{g/l}$

RAJIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

44 = Monitoring Well  
1A = First Laboratory duplicate analysis  
1B = Second Laboratory duplicate analysis

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
P or PC = Identity previously confirmed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEATED 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-19S	M4-19S	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D
Date Sampled				06/14/85	03/13/86	10/16/86	06/18/85	05/06/86	05/06/86	10/27/86	01/29/87	05/05/87	07/28/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	USAF	USAF	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				06/19/85	03/19/86	10/20/86	06/21/85	05/16/86	05/16/86	10/28/86	01/30/87	05/06/87	07/29/87
Lab				RAS	SAC	SAC	RAS	ANLAB	ANLAB	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis								LDA	LDB				
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	0.63C	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	0.9	0.8	1.2C	1.2C	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	0.19C	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	4.3	2.6	8.2C	8.2C	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

USAF = United States Air Force

RAS = Radian Analytical Services

ANLAB = Anlab Analytical Lab

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

ALL UNITS ARE ug/l

44 = Monitoring well  
PDA = First field duplicate analysis  
PDB = Second field duplicate analysis  
LDA = First Laboratory duplicate analysis

RAOIAN = Radion Corporation, Sacramento  
USAF = United States Air Force  
RAS = Radion Analytical Services  
ANAB = Anlab Analytical Lab  
CES = Camille Environmental Services  
SAC = Radion Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES D 601 PRIOR TO OCTOBER 1988

Parameter	DHS Action Level	U.S. EPA Primary MCL	DATE Sampled By Date Analyzed Lab Field Analysis Lab Analysis	03/19/86 RADIAN SAC	09/30/86 RADIAN SAC	01/21/87 RADIAN SAC	05/01/87 RADIAN SAC	08/14/87 RADIAN SAC	10/17/87 RADIAN SAC	01/25/88 RADIAN SAC	04/13/88 RADIAN SAC	04/13/88 RADIAN SAC	04/13/88 RADIAN SAC	04/15/88 RADIAN SAC	07/18/88 RADIAN SAC
Chloromethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

 M# = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis

 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

 ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established





MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-21S	M4-21S	M4-21S	M4-22D	M4-22D	M4-22D	M4-22D	M4-22D	M4-22D	M4-22D
Date Sampled			04/13/88	07/26/88	10/21/88	06/20/85	05/06/86	10/29/86	01/23/87	05/06/87	08/06/87	10/14/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/15/88	07/27/88	10/24/88	06/24/85	05/16/86	10/30/86	01/29/87	05/11/87	08/10/87	10/16/87
Lab			SAC	SAC	SAC	RAS	ANLAB	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	13.7	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	297	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	16.7	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	0.66PC	1.3P	0.59C	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	0.14PC	0.24P	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	133	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	0.57PC	1.1P	0.45C	213	15	ND	ND	ND	ND	ND
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	13.5	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	6.5	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
USAF = United States Air Force  
RAS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
CES = Canville Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
P or PC = Identity previously confirmed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	DATE Sampled By Lab	DATE Analyzed Lab	DATE Field Analysis Lab Analysis	DATE Sampled By Lab	DATE Analyzed Lab	DATE Field Analysis Lab Analysis	DATE Sampled By Lab	DATE Analyzed Lab	DATE Field Analysis Lab Analysis	DATE Sampled By Lab	DATE Analyzed Lab	DATE Field Analysis Lab Analysis	DATE Sampled By Lab	DATE Analyzed Lab	DATE Field Analysis Lab Analysis
Chloroethane	NE	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Bromoethane	NE	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Vinyl chloride	2	1	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Chloroethene	NE	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Methylene chloride	40	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Trichloroethene	3400	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,1-Dichloroethene	6	7	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,1-Dichloroethane	20	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Total 1,2-Dichloroethene	16	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Chloroform	100	100	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,2-Dichloroethane	1	5	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,1,1-Trichloroethane	200	200	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Carbon tetrachloride	5	5	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Bromodichloroethane	100	100	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,2-Dichloropropane	10	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Trans-1,2-dichloropropane	NE	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Trichloroethene	5	5	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Dibromochloroethane	100	100	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,1,2-Trichloroethane	100	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
cis-1,3-Dichloropropene	87	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
2-Chloroethoxyvinyl ether	NE	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Bromofom	100	100	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,1,2-Tetrachloroethane	NE	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Tetrachloroethane	4	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
Chlorobenzene	30	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,3-Dichlorobenzene	130	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,2-Dichlorobenzene	130	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,4-Dichlorobenzene	(LOD)0.5	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88
1,1,1,2-Tetrachloroethane	NE	NE	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88	01/19/88	01/20/88	01/20/88

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

NE = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DD.

NE = Not established

RADIAN = Radian Corporation, Sacramento

USAF = United States Air Force

RAS = Radian Analytical Services

ANLAB = Anlab Analytical Lab

SAC = Radian Analytical Services, Sacramento

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	M4-230	M4-230	M4-230	M4-230	M4-230	M4-230	M4-230	M4-230	M4-230	M4-240
Level		MCL										
Date Sampled			05/05/87	06/12/87	08/12/87	10/25/87	01/21/88	04/21/88	07/21/88	10/19/88	06/03/85	06/07/85
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/06/87	08/18/87	08/18/87	10/29/87	01/22/88	04/25/88	07/25/88	10/20/88	06/04/85	06/12/85
Lab			SAC	SAC	SAC	SAC	SAC	CES	SAC	SAC	RAS	RAS
Field Analysis												
Lab Analysis			LDA	LDB								
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	2.5	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	0.300	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	2.7	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LD = First Laboratory duplicate analysis

LD = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

CES = Ceramite Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-24D	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D
Date Sampled			03/20/86	09/26/86	09/26/86	01/22/87	05/05/87	08/13/87	10/25/87	01/19/88	04/21/88	07/12/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/26/86	09/29/86	09/29/86	01/27/87	05/06/87	08/17/87	10/29/87	01/20/88	04/25/88	07/14/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				LDA	LDB							
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	1.6	0.98	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1/2	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYLED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-24S	M4-25D	M4-25D	M4-25S	M4-26D	M4-26S	M4-27D	M4-27D	M4-27D	M4-27D
Date Sampled					06/02/85	06/13/85	10/21/88	05/30/85	06/18/85	06/02/85	05/30/85	05/13/87	08/11/87	08/11/87
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed					06/04/85	06/18/85	10/24/88	05/31/85	06/21/85	06/04/85	05/31/85	05/19/87	08/17/87	08/17/87
Lab					RAS	RAS	SAC	RAS	RAS	RAS	RAS	SAC	SAC	SAC
Field Analysis													FTB	FTB
Lab Analysis														
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			ND	ND	ND	ND	3.8	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	0.89C	ND	2.5	0.69C	ND	18C	30C	23C
Chloroform	100	100			ND	ND	0.23C	ND	2.6	ND	ND	15C	8.9C	8.0C
1,2-Dichloroethane	1	5			ND	ND	0.15C	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	5	5			ND	ND	ND	ND	ND	ND	ND	27C	13C	14C
Carbon tetrachloride	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			ND	2.9	1.0C	2.4	8.7	5.7C	4.6	195C	76C	71C
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	ND	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = First field duplicate analysis

FTD = Second field duplicate analysis

RADIANT = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

ALL UNITS ARE ug/l

MM = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RAOJIAN = Radon Corporation, Sacramento

CES = Central Environmental Services

SAC = Radon Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

P or PC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

[illegible]

**ALL UNITS ARE U-1**

**7/20/2007 - Monitoring Wall**

FDA = First field duplicate analysis

**W.D. = Plant laboratory duplicate analysis**

JB = Second Laboratory duplicate analysis

**RADIAN = Radian Corporation, Sacramento**

**RAS** = Radiation Analytical Services

- National Analytical Services  
- Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	06/17/85	04/03/86	04/03/86	04/03/86	10/01/86	01/15/87	04/29/87	04/29/87	08/12/87	10/24/87	01/19/88	01/19/88
Date Sampled			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Sampled By			RAS	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Date Analyzed			06/19/85	04/25/86	04/08/86	04/08/86	01/02/86	01/21/87	05/01/87	05/01/87	08/18/87	10/29/87	01/20/88	01/20/88
Lab			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	270	230	230	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

RADIAN = Radian Corporation, Sacramento  
 RAS = Radian Analytical Services  
 CES = Cerrito Environmental Services  
 SAC = Radian Analytical Services, Sacramento

FTB = First field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LTB = Second laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-290	M4-290	M4-305	M4-315	M4-315	M4-315	M4-315	M4-315	M4-315	M4-315
Date Sampled			04/12/88	07/12/88	10/13/88	06/13/85	06/11/85	03/28/86	10/08/86	01/22/87	04/29/87	08/12/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/14/88	07/14/88	10/17/88	06/18/85	06/18/85	04/01/86	10/10/86	01/28/87	05/01/87	08/18/87
Lab			SAC	SAC	SAC	RAS	RAS	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis									LDA	LDB		
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	0.50	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

ALL UNITS ARE  $\mu\text{g/l}$

RA = Monitoring well  
F1A = First field duplicate analysis  
F2B = Second field duplicate analysis  
F3B = First laboratory duplicate analysis  
F4B = Second laboratory duplicate analysis

RAULIAN = Radian Corporation, Sacramento  
USAF = United States Air Force  
RAS = Radian Analytical Services  
ANLAB = Arlab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

NC = Result was not confirmed in second column analysis  
ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
DL = Diluted out of the confirmation run  
NE = Not established

ALL UNITS ARE  $\mu\text{m/l}$

NEW = Monitoring Well

FFA = First field of analysis

FDN = First item comparison analysis  
SDN = Second field data; case analysis

STAYING AWAY FROM ROOMS  
WITH SECOND HAND SMOKE  
PM - PLANT CHEMISTS

UW = First laboratory duplicate analysis  
LB = Second laboratory duplicate analysis

**DB = Second Laboratory duplicate anal.**

**THE UNIVERSITY OF CHICAGO**

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DTS		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S
Date Sampled					04/16/87	07/31/87	07/31/87	07/31/87	09/17/87	10/26/87	01/08/88	04/25/88	07/21/88	07/21/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					04/17/87	08/05/87	08/05/87	09/21/87	09/21/87	10/29/87	01/11/88	05/03/88	07/25/88	07/25/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis					FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Chloroethane	NE	NE	NE	NE	ND	ND	ND	ND	4.7L	ND	ND	ND	ND	ND
Bromoethane	NE	NE	NE	NE	ND	ND	ND	ND	5.1L	ND	ND	ND	ND	ND
Vinyl chloride	2	1	1	1	1.1L	ND	ND	ND	5.1L	ND	ND	4.9C	ND	ND
Chloroethane	NE	NE	NE	NE	ND	ND	ND	ND	4.6L	ND	ND	6.7C	860C	ND
Methylene chloride	40	NE	NE	NE	3.8L	ND	ND	ND	4.6L	ND	ND	6.7C	860C	ND
Trichloroethane	3400	NE	NE	NE	ND	ND	ND	ND	3.5L	ND	ND	1.7C	ND	ND
1,1-Dichloroethane	6	7	NE	NE	ND	ND	ND	ND	3.1L	ND	ND	2.7C	ND	ND
1,1-Dichloroethane	20	NE	NE	NE	8.1L	ND	ND	ND	3.1L	ND	ND	2.7C	ND	ND
Total 1,2-Dichloroethane	16	NE	NE	NE	ND	690C	630C	630C	4.3L	430C	470C	91C	530C	540C
Chloroform	100	100	NE	NE	ND	ND	ND	ND	4.2L	ND	ND	91C	530C	540C
1,2-Dichloroethane	1	5	NE	NE	0.27L	280C	280C	280C	4.3L	ND	ND	1.4C	ND	ND
1,1,1-Trichloroethane	200	200	NE	NE	0.31L	ND	ND	ND	4.3L	ND	ND	1.4C	ND	ND
Carbon tetrachloride	5	5	NE	NE	2.2L	ND	ND	ND	2.2L	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	NE	NE	ND	ND	ND	ND	1.3L	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	NE	NE	24000C	45000C	52000C	52000C	20000C	35000C	22000C	26000C	38000C	32000C
Dibromochloroethane	100	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	NE	NE	8.5L	ND	ND	ND	6.9L	ND	ND	26C	ND	ND
Chlorobenzene	30	NE	NE	NE	2.3L	ND	ND	ND	0.8L	ND	ND	26C	ND	ND
1,3-Dichlorobenzene	130	NE	NE	NE	7.9L	ND	ND	ND	5.8L	ND	ND	4.0C	ND	ND
1,2-Dichlorobenzene	130	NE	NE	NE	3.2L	ND	ND	ND	1.9L	ND	ND	32C	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	NE	NE	14L	ND	ND	ND	7.1L	ND	ND	6.4C	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FTA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 FTA = First laboratory duplicate analysis  
 FTB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 CES = Ceres Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 DL = Diluted out of the confirmation run  
 P or PC = Identity previously confirmed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-33S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S
Date Sampled			07/21/88	10/18/88	06/06/85	03/31/86	09/17/86	01/14/87	04/16/87	07/30/87	10/21/87	01/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/25/88	10/21/88	06/07/85	04/03/86	09/23/86	01/20/87	04/17/87	08/03/87	10/23/87	01/14/88
Lab			SAC	SAC	RAS	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB					FTB				
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	0.6C	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	12	860BC	ND	ND	2.2C	ND	ND
Trichloroethylene	3400	NE	ND	ND	34.2	26	41C	108	72C	66C	150C	24C
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24C
1,1-Dichloroethene	20	NE	440C	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	500C	360P	ND	ND	ND	ND	0.42C	ND	0.20C	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	400P	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	0.14C	ND
Toluene-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	28000C	27000P	2.9	1.8	2.2C	ND	3.7C	5.3C	1.8C	1.9C
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	0.15C	ND	0.30C	ND	0.35C	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NC = Result was not confirmed in second column analysis

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601, PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled By	Date Analyzed	Lab	Field Analysis Lab Analysis	U.S. EPA Action Level	Primary MOL	WELL NUMBER									
							M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-41S
Chloroethene	NE	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Bromoethene	NE	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Vinyl chloride	2	1	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Chloroethene	NE	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Methylene chloride	40	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Trichloroethene	3400	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,1-Dichloroethene	6	7	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,1-Dichloroethene	20	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Chloroform	100	100	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,2-Dichloroethene	1	5	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,1,1-Trichloroethene	200	200	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Carbon tetrachloride	5	5	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Bromochloroethene	100	100	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,2-Dichloroethene	10	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Trichloroethene	5	5	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Dibromochloroethene	100	100	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,1,2-Trichloroethene	100	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
2-Chloroethylvinyl ether	NE	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Bromofuran	100	100	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,1,2,2-Tetrachloroethene	NE	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Tetrachloroethene	4	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
Chlorobenzene	30	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,4-Dichlorobenzene	(100)0.5	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86
1,1,1,2-Tetrachloroethene	NE	NE	NE	NE	NE	NE	04/11/88	04/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	07/11/88	03/13/86

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FIB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIANT = Radian Corporation, Sacramento

RAS = Radian Analytical Services

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled By	Date Analyzed Lab	Field Analysis Lab Analysis	U.S. EPA Action Level	WELL NUMBER									
					M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S
Chloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	100	100	1.1DL	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Telchloroethane	5	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDN = First laboratory duplicate analysis

LDL = Second laboratory duplicate analysis

RADIANT = Radian Corporation, Sacramento

CES = Carline Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LDQ = Limit of quantitation

DL = Diluted out of the confirmation run

P or PC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled By Date Analyzed Lab	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				MJ-41S	MJ-41S	MJ-41S	MJ-41S	MJ-41S	MJ-41S	MJ-42S	MJ-42S	MJ-43S	MJ-44S
Chloroethene	01/26/88	NE	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Bromoethene	04/18/88	NE	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Vinyl chloride	04/22/88	2	1	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Chloroethane	04/22/88	NE	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Methylene chloride	04/22/88	40	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Trichloroethene	04/22/88	3400	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,1-Dichloroethene	04/22/88	6	7	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,1-Dichloroethane	04/22/88	20	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Total 1,2-Dichloroethene	04/22/88	16	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Chloroform	04/22/88	100	1.4	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,2-Dichloroethane	04/22/88	1	5	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,1,1-Trichloroethene	04/22/88	200	200	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Carbon tetrachloride	04/22/88	5	5	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Bromochloroethene	04/22/88	100	100	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,2-Dichloropropane	04/22/88	10	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Trans-1,3-dichloropropene	04/22/88	NE	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Trichloroethene	04/22/88	5	5	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Dibromochloroethene	04/22/88	100	100	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,1,2-Trichloroethene	04/22/88	100	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
cis-1,3-Dichloropropene	04/22/88	87	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
2-Chloroethylvinyl ether	04/22/88	NE	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Bromobenzene	04/22/88	100	100	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,1,2,2-Tetrachloroethene	04/22/88	NE	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Tetrachloroethene	04/22/88	4	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
Chlorobenzene	04/22/88	30	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,3-Dichlorobenzene	04/22/88	130	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,2-Dichlorobenzene	04/22/88	130	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,4-Dichlorobenzene	04/22/88	(100)0.5	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86
1,1,1,2-Tetrachloroethene	04/22/88	NE	NE	RADIANT	07/13/88	07/13/88	07/13/88	07/13/88	07/13/88	06/02/85	06/02/85	05/31/85	03/21/86

ALL UNITS ARE ug/l

MJ = Monitoring Well

RADIANT = Radian Corporation, Sacramento

RAS = Radian Analytical Services

CES = Canale Environmental Services

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHD 8010 ANALYTES (METHD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S
Date Sampled			09/17/86	01/12/87	05/06/87	08/13/87	10/23/87	10/23/87	10/23/87	07/20/88	07/20/88	10/06/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			09/23/86	02/05/87	05/11/87	08/18/87	10/29/87	10/29/87	10/29/87	04/26/88	07/22/88	10/10/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												FTA
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	0.55C	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	0.55C	NO	NO	8.5C	3.3C	3.3C	3.3C	2.88C	4.8P	5.6C
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	0.40C	0.44C	0.63C	0.50PC	1.1C	0.50C
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS /NE ug/l

M4 = Monitoring Well

FTA = First field duplicate analysis

UDA = First laboratory duplicate analysis

UDA = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER	M4-44S	M4-45S	M4-46S	M4-47S	M4-48S	M4-51	M4-51	M4-51	M4-51
Date Sampled				10/06/88	06/04/85	05/06/86	06/03/85	06/04/85	11/22/86	04/23/87	08/03/87	10/15/87
Sampled By				RADIAN	RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/07/88	06/05/85	05/16/86	06/04/85	06/05/85	11/25/86	04/27/87	08/06/87	10/19/87
Lab				SAC	RAS	ANLAB	RAS	RAS	SAC	SAC	SAC	SAC
Field Analysis				FTB								
Lab Analysis												
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	7.4	ND	ND	1.5C
Trichlorofluoromethane	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7		3.5P	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5		0.66P	4.1	14	2.7	ND	ND	ND	ND	ND
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE		ND	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 MJ = Monitoring Well  
 FTB = Second field duplicate analysis  
 RADIANT = Radian Corporation, Sacramento  
 USAF = United States Air Force  
 RAS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-51	M4-51	M4-51	M4-51	M4-51	M4-52	M4-52	M4-52	M4-52	M4-52
Date Sampled			01/11/88	01/11/88	04/08/88	07/07/88	10/07/88	11/24/86	01/29/87	05/11/87	07/27/87	10/16/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/12/88	01/12/88	04/12/88	07/08/88	10/10/88	12/01/86	01/29/87	05/13/87	07/28/87	10/19/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB								
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	0.53C	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	2.1C	ND	ND	ND
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 CES = Canole Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-52	M4-52	M4-52	M4-53	M4-53	M4-53	M4-53	M4-53	M4-53	M4-53
Date Sampled	Level	M4-52	M4-52	M4-52	M4-52	M4-53	M4-53	M4-53	M4-53	M4-53	M4-53	M4-53
Sampled By												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 LDN = First Laboratory duplicate analysis  
 LDZ = Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-53	M4-53	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54
	Level	MCL										
Date Sampled			04/07/88	07/05/88	11/20/88	01/15/87	04/27/87	04/27/87	04/27/87	08/10/87	08/10/87	10/19/87
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			04/08/88	07/06/88	12/03/88	01/22/87	05/06/87	05/06/87	05/06/87	08/14/87	08/17/87	10/23/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	1200C	1224C	180C	160C	190C	14C	17C	40C
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	3400	NE	ND	ND	6UL	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	2.5PC	12P	430C	171C	50C	51C	50C	8.9C	11C	22C
1,1-Dichloroethane	20	NE	ND	ND	1400C	549C	150C	140C	150C	16C	20C	10C
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	6.6C	62C	5.7C	0.64C	0.62C	5.4C
Chloroform	100	100	ND	ND	1.8UL	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	39UL	14C	ND	ND	ND	0.23C	1.2C	1.0C
1,1,1-Trichloroethane	200	200	0.22PC	1.3P	19UL	ND	ND	ND	ND	ND	ND	0.30C
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	0.24UL	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	0.32PC	2.9P	9.0UL	3.9C	ND	ND	ND	ND	ND	1.8C
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	38UL	ND	ND	ND	ND	ND	ND	0.80C
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	0.72P	4.1UL	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	2.0UL	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	57UL	ND	ND	ND	ND	ND	ND	0.20C
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FD = First field duplicate analysis

FD = Second field duplicate analysis

LD = First laboratory duplicate analysis

LD = Second laboratory duplicate analysis

RADIANT = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

IL = Diluted out of the confirmation run

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHYLED 8010 ANALYTES (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	IHS U.S. EPA		WELL NUMBER									
	Action	Priority	M4-54	M4-54	M4-54	M4-54	M4-54	M4-55	M4-55	M4-55	M4-55	M4-55
Date Sampled			01/06/88	01/06/88	04/06/88	04/06/88	07/11/88	10/14/88	11/22/86	01/05/87	04/20/87	04/20/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/07/88	01/07/88	04/07/88	04/07/88	07/12/88	10/21/88	12/03/86	01/08/87	04/23/87	04/23/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis												
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	5.0C	3.6PC	ND	ND	2.9C	ND	0.34UL	0.34UL	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	8.2C	8.5PC	0.36PC	ND	1.00C	ND	210C	160C	310C	290C
1,1-Dichloroethane	20	NE	2.9C	2.6PC	0.39PC	1.1C	7.6C	0.74P	14C	18C	13C	13C
Total 1,2-Dichloroethene	16	NE	0.78C	0.76C	ND	ND	7.0C	ND	ND	27	11C	9.9C
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	0.57UL	ND	ND
1,2-Dichloroethane	1	5	0.17C	0.16PC	ND	ND	1.0C	ND	2.9UL	2.9	0.93UL	0.79C
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	0.46C	ND	13C	41C	69C	55C
Bromochloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	1.4C	1.4PC	ND	ND	7.3C	ND	110C	70C	29C	51C
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	1.3C	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	13C	46C	38C	33C
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	0.11UL	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	0.27UL	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 CES = Ceramite Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 DL = Diluted out of the confirmation run  
 P or PC = Identity previously confirmed  
 NE = Not established

ALL UNITS ARE ug/l

PM = Monitoring well  
F0A = First field duplicate analysis  
F0B = Second field duplicate analysis  
L0A = First laboratory duplicate analysis  
L0B = Second laboratory duplicate analysis

RADIUM = Radion Corporation, Sacramento  
QES = Cerrote Environmental Services  
SAC = Radion Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LQ = Limit of quantitation  
P or PC = Identity previously confirmed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	M/L	M4-55	M4-57	M4-57	M4-57	M4-57	M4-57	M4-57	M4-57	M4-57	M4-57
Date Sampled					10/04/88									
Sampled By					RADIAN									
Date Analyzed					10/05/88									
Lab					SAC									
Field Analysis					FTB									
Lab Analysis														
Chloroethers	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	60P		2.3C	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	5.1P		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	40P		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	1.4P		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	2.6P		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	14P		2.5C	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	1.5P		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTICS (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS U.S. EPA		WELL NUMBER									
	Action	Primary	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58
Level		MCL										
Date Sampled			11/21/86	01/19/87	01/19/87	04/30/87	06/06/87	10/13/87	01/11/88	04/06/88	04/06/88	07/07/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/25/86	01/22/87	01/22/87	05/05/87	08/10/87	10/16/87	01/12/88	04/07/88	04/07/88	07/08/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDB	FDB	FDB	FDB	FDB	LDA	LDB	
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	1.3C	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	1.7C	3.3C	3.2C	NO	NO	NO	0.27C	0.55C	0.49C	0.14C
1,1-Dichloroethane	20	NE	2.0C	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	0.36C	2.4C	2.2C	2.3C	NO	NO	0.25C	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	0.62C	1.4C	1.2C	1.5C	NO	NO	NO	0.24C	0.26C	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-58	M4-59	M4-59	M4-59	M4-59	M4-59	M4-59	M4-59	M4-59	M4-59
Date Sampled			10/17/88									
Sampled By			RADIANT									
Date Analyzed			10/18/88									
Lab			SAC									
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

IL = Diluted out of the confirmation run

P or PC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR MECHD 8010 ANALYTES (MECHD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority	WELL NUMBER						Date Sampled	Date Analyzed	Lab	Field Analysis
			M4-59	M4-59	M4-59	M4-60	M4-60	M4-60				
Chloroethane	NE	NE	04/08/88	04/08/88	07/06/88	10/11/88	05/06/86	10/28/86	01/13/87	04/24/87	06/13/87	10/25/87
Bromoethane	NE	NE	RADIAN	RADIAN	RADIAN	RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	6	7	0.53PC	0.7C	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethane	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromodichloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloropropane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Toluene-1,3-dichloropropane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethane	5	5	0.49PC	0.9C	NE	0.23P	5.0	NE	NE	NE	NE	NE
Dibromochloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethylvinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzofuran	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LOD)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 RADIAN = Radian Corporation, Sacramento  
 USAF = United States Air Force  
 ANLAB = Anlab Analytical Lab  
 CES = Canale Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 NE = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER											
	Action	Primary	M4-60	M4-60	M4-60	M4-60	M4-61	M4-61	M4-61	M4-61	M4-61	M4-61	M4-61	M4-61
Date Sampled			01/22/88	04/18/88	07/20/88	10/10/88	03/19/88	05/07/87	05/07/87	05/07/87	05/07/87	05/07/87	08/07/87	10/13/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Lab														
Field Analysis														
Lab Analysis														
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethers	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethers	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethers	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethers	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethers	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofluor	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethers	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethers	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MW = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Cerro Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-61	M4-61	M4-61	M4-61	M4-61	M4-62	M4-62	M4-63	M4-63	M4-63
Date Sampled			01/19/88	01/19/88	04/22/88	07/20/88	10/07/88	04/26/88	07/26/88	10/07/88	04/02/86	04/02/86
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/20/88	01/20/88	04/26/88	07/22/88	10/10/88	04/28/88	07/27/88	10/10/88	04/05/86	04/05/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB								
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	0.34C	0.23FC	0.13P	0.12C	0.30P	0.18P	0.4	0.4	0.4	0.4
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	4.3C	5.2FC	7.9P	7.3C	1.3P	0.44C	0.39P	40	36	36
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDB = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or FC = Identity previously confirmed

NE = Not established

Parameter	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER										
			M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-64	
Date Sampled			11/25/86	11/25/86	01/27/87	05/11/87	08/14/87	10/22/87	01/25/88	04/15/88	07/15/88	10/07/88	10/26/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/02/86	12/02/86	02/02/87	05/13/87	08/20/87	10/29/87	01/25/88	04/20/88	07/20/88	10/10/88	10/27/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB										
Lab Analysis													
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	3.2C	ND	ND	ND	ND
Trichlorofluoroethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	6	7	0.25C	0.26C	ND	ND	ND	ND	0.76C	ND	ND	ND	ND
1,1,2-Dichloroethane	20	NE	0.15TL	0.15TL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzal 1,2-Dichloroethane	16	NE	ND	ND	ND	65C	68C	52C	43C	33PC	46P	46P	ND
Chloroform	100	100	0.15TL	0.15TL	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	0.78C	ND	0.68P	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropene	10	NE	0.11TL	0.11TL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	26C	41C	210C	190C	52C	68C	44PC	91P	58P	ND	ND
1,1,1,2-Tetrachloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Trichloroethane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**ALL UNITS ARE U.S./L**

ITM - Monitoring Well

**FDA - First field duplicate analysis**

**FTB = Second field duplicate analysis**

**RADIAN = Radian Corporation, Sacramento**

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

**C = Analysis confirmed in**

100 = Limit of quantitation

IX. = Diluted out of the confirmation run

P or PC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES		U.S. EPA		WELL NUMBER											
	Action	Level	Primary	MCL	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67
Date Sampled					03/20/86	10/17/86	01/23/87	05/06/87	08/15/87	10/20/87	01/26/88	01/26/88	01/26/88	04/26/88	07/15/88	
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	
Date Analyzed					03/26/86	10/21/86	01/29/87	05/11/87	08/19/87	10/27/87	01/28/88	01/28/88	01/28/88	04/28/88	07/18/88	
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	0.72C(1.32)	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200			NO	NO	NO	NO	NO	0.30C	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS /MG UG/L

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

CES = Canale Environmental Services

SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC), Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-67	M4-68	M4-68	M4-68	M4-68	M4-68	M4-68	M4-68	M4-69	M4-69
Date Sampled					10/11/88									
Sampled By					RADIAN									
Date Analyzed					10/12/88									
Lab					SAC									
Field Analysis														
Lab Analysis														
Chloroethers	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethenes	3400	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

100 = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-69	M4-69	M4-69	M4-69	M4-69	M4-69	M4-69	M4-70	M4-70	M4-70
Date Sampled			05/13/87	10/20/87	01/23/88	04/19/88	04/19/88	07/13/88	10/05/88	01/29/87	05/12/87	08/14/87
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			05/18/87	10/23/87	01/25/88	04/21/88	04/21/88	07/14/88	10/07/88	01/30/87	05/18/87	08/19/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis						LDA	LDB					
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES	U.S. EPA Action Level	WELL NUMBER									
			M4-70	M4-70	M4-70	M4-70	M4-70	M4-71	M4-71	M4-71	M4-72	M4-72
Date Sampled			10/16/87	01/07/88	04/21/88	07/05/88	10/13/88	04/22/88	07/20/88	10/27/88	05/08/87	08/14/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/19/87	01/08/88	04/25/88	07/06/88	10/17/88	04/26/88	07/22/88	11/01/88	05/13/87	08/19/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FTB							
Lab Analysis					FTB							
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	41C	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	0.27C	0.25FC	NO	NO	NO	0.10C	NO	0.11C	550C	1900C
Total 1,2-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	0.38C	64C	150C
Chloroform	16	NE	NO	NO	NO	NO	NO	0.58C	NO	0.23C	48C	75C
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	28C	140C
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	5.9C	43C
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	0.70C	0.71C	0.50C	410C	1200C
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NO	NA	NA	NO	NA	NA

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FTA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 100 = Limit of quantitation  
 P or FC = Identity previously confirmed  
 NE = Not established

[illegible]

PM = Particle matter  $\leq 10 \mu\text{m}$   
 MM = Monitoring Well  
 FFA = First field duplicate analysis  
 FFB = Second field duplicate analysis  
 LFA = First laboratory duplicate analysis  
 LFB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
CES = Canonic Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LQ = Limit of quantitation  
P or PC = Identity previously confirmed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Priority	WELL NUMBER									
			M4-74	M4-74	M4-74	M4-75	M4-75	M4-75	M4-76	M4-76	M4-76	M4-88
Date Sampled			07/26/88	10/26/88	10/26/88	04/21/88	07/20/88	10/28/88	07/21/88	10/27/88	10/27/88	01/06/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/26/88	10/27/88	10/27/88	04/29/88	07/22/88	11/02/88	07/25/88	11/02/88	11/02/88	01/06/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTN	FTN	FTB				FTN	FTB	FTB	
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	12P	11P	12P	NO	NO	NO	200C	48C	38P	1.1C
1,1-Dichloroethane	20	NE	0.21P	0.32P	0.38P	NO	NO	NO	16C	14C	9P	9.8P
Total 1,2-Dichloroethane	16	NE	0.42P	0.24P	0.22P	0.32C	NO	1.2C	28C	14C	8.2P	8.6P
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	0.21P	NO	NO	NO	NO	NO	1.4C	NO	0.37P	0.38P
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	0.61C	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	4.6P	4.7P	5.4P	17C	26C	12C	3.6C	NO	0.61P	0.71P
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	1.4C	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	0.22C	NO	0.14C	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	1.6C	NO	0.33C	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	0.36C	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NO	NO	NA	NA	NO	NA	NO	NO	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well  
FTN = First field duplicate analysis  
FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
P or PC = Identity previously confirmed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DPS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-88	M4-88	M4-88	M4-88	M4-88	M4-88	M4-88	M4-88	M4-88	M4-89
Date Sampled			05/04/87	05/04/87	08/13/87	10/24/87	01/21/88	04/11/88	07/08/88	10/13/88	01/06/87	05/04/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/06/87	05/06/87	08/17/87	10/29/87	01/22/88	04/12/88	07/11/88	10/17/88	01/08/87	05/06/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA					
Lab Analysis			LDA	LDB								
Chloroacethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoacethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroacethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	NO	NO	0.98	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethene	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	WELL NUMBER									
		Primary	M4-89	M4-89	M4-89	M4-89	M4-89	M4-90	M4-90	M4-90	M4-90
Date Sampled			08/13/87	10/21/87	01/11/88	04/15/88	07/08/88	10/06/88	05/04/87	08/13/87	10/12/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/17/87	10/28/87	01/12/88	04/20/88	07/11/88	10/07/88	05/06/87	08/17/87	10/14/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis											
Lab Analysis											
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	0.75C	0.97C	1.1C	2.5C	NO	1.6C	0.52C
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

 ALL UNITS ARE ug/l  
 M4 = Monitoring Well

 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LDQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-90	M4-90	M4-90	M4-90	M4-91	M4-91	M4-91	M4-91	M4-91	M4-91
Date Sampled			04/11/88	04/11/88	04/11/88	07/14/88	10/11/88	01/20/87	04/21/87	07/28/87	10/12/87	10/12/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/12/88	04/12/88	04/12/88	07/15/88	10/12/88	01/26/87	04/22/87	07/29/87	10/13/87	10/13/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB	FDB	FDB	FDB	FDB	FDB	FDB	FDB	FDB
Lab Analysis			LDA	LDB	LDB							
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoroethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	14C	14C	8.1C	3.0C	3.3C
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	0.21C	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	9.5C	13C	18C	6.7C	6.4C
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-91	M4-91	M4-91	M4-91	M4-92	M4-92	M4-92	M4-92	M4-92	M4-92
Date Sampled			01/21/88	04/18/88	07/20/88	10/05/88	01/20/87	04/21/87	07/28/87	10/26/87	10/26/87	01/21/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/22/88	04/19/88	07/22/88	10/06/88	01/26/87	04/22/87	07/29/87	10/29/87	10/29/87	01/22/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	1.3C	0.65PC	1.2C	3.74C	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	0.12PC	0.12C	NO	NO	0.19C	NO	0.79C	0.67C	0.76C
Total 1,2-Dichloroethane	16	NE	0.15C	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	6.6C	7.6PC	6.9C	3.8C	6.2C	7.9C	9.4C	3.7C	4.4PC	3.7PC
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyethyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NO	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	M4-92	M4-92	M4-92	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100
	Action	Primary											
	Level	MCL											
Date Sampled			04/12/88	07/21/88	10/05/88	12/21/85	12/21/85	02/27/86	09/16/86	01/09/87	01/09/87	04/17/87	
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	
Date Analyzed			04/14/88	07/25/88	10/06/88	12/26/85	12/26/85	03/11/86	09/23/86	01/15/87	01/15/87	04/21/87	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis						FOA	FOA						
Lab Analysis						LDA	LDB			LDA	LDB		
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	0.58C	0.74C	0.54P	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	4.1C	3.8C	3.2P	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FOA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or FC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	DATE	MA-100	MA-100	MA-100	MA-100	MA-100	MA-101	MA-101	MA-101	MA-101	MA-101
Date Sampled			08/07/87	08/07/87	10/19/87	01/22/88	04/14/88	07/19/88	10/11/88	11/18/85	11/18/85	03/05/86	09/16/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/13/87	08/13/87	10/21/87	01/26/88	04/19/88	07/21/88	10/12/88	11/24/85	11/24/85	03/10/86	09/23/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDA									
Lab Analysis													
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethene	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MA = Monitoring Well

FDA = First field duplicate analysis

SAC = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority ML	WELL NUMBER										
			M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	
Date Sampled			09/16/86	01/09/87	04/17/87	08/05/87	08/05/87	08/05/87	08/05/87	10/19/87	01/22/88	04/14/88	07/19/88
Sampled By			RAOIAN	RAOIAN	RAOIAN	RAOIAN	RAOIAN	RAOIAN	RAOIAN	RAOIAN	RAOIAN	RAOIAN	RAOIAN
Date Analyzed			09/23/86	01/15/87	04/21/87	08/07/87	08/07/87	08/07/87	08/07/87	10/21/87	01/26/88	04/18/88	07/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FDA	FDA	FTB					
Lab Analysis			LDB			LDA	LDB				LDA	LDB	
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-101	M4-102	M4-102	M4-102	M4-102	M4-102	M4-102	M4-102	M4-102	M4-102
Date Sampled			10/11/88	11/04/88	03/11/86	09/18/86	01/09/87	04/22/87	08/07/87	08/07/87	08/07/87	10/19/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/12/88	11/11/88	03/17/86	09/23/86	01/15/87	04/27/87	08/11/87	08/11/87	08/11/87	10/21/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	0.65	ND	ND	ND	ND	0.56C(1.32)	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofom	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

 RADIAN = Radian Corporation, Sacramento  
 CES = Canine Environmental Services  
 SAC = Radian Analytical Services, Sacramento

 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

[illegible]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	Well Number	M4-103	M4-103	M4-103	M4-103	M4-103	M4-103	M4-103	M4-104
	Action	Level	WCL									
Date Sampled												
Sampled By												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE										
Bromoethane	NE	NE										
Vinyl chloride	2	1										
Chloroethene	NE	NE										
Methylene chloride	40	NE										
Trichloroethene	3400	NE										
1,1-Dichloroethane	6	7										
1,1-Dichloroethene	20	NE										
Total 1,2-Dichloroethane	16	NE										
Chloroform	100	100										
1,2-Dichloroethane	1	5										
1,1,1-Trichloroethane	200	200										
Carbon tetrachloride	5	5										
Bromodichloroethane	100	100										
1,2-Dichloropropane	10	NE										
Trans-1,3-dichloropropene	NE	NE										
Trichloroethene	5	5										
Dibromochloroethane	100	100										
1,1,2-Trichloroethane	100	NE										
cis-1,3-Dichloropropene	87	NE										
2-Chloroethyvinyl ether	NE	NE										
Bromoforn	100	100										
1,1,2,2-Tetrachloroethane	NE	NE										
Tetrachloroethane	4	NE										
Chlorobenzene	30	NE										
1,3-Dichlorobenzene	130	NE										
1,2-Dichlorobenzene	130	NE										
1,4-Dichlorobenzene	(LOQ)0.5	NE										
1,1,1,2-Tetrachloroethane	NE	NE										

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DBS	U.S. EPA Action Level	Primary MCL	WELL NUMBER											
				M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104
Date Sampled				12/15/85	03/26/86	10/02/86	01/28/87	05/11/87	07/31/87	07/31/87	10/21/87	10/21/87	01/21/88	04/11/88	
Sampled By				RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	
Date Analyzed				12/21/85	04/01/86	10/06/86	01/29/87	05/13/87	08/04/87	08/04/87	10/22/87	10/22/87	01/22/88	04/12/88	
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis															
Lab Analysis				LDB				LDA	LDB	LDA	LDB				
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	40	NE		ND	870	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethane	3400	NE		ND	ND	0.38	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	6	7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethane	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromobenzene	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	(LOQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601, PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-104	M4-104	M4-105	M4-105	M4-105	M4-105	M4-105	M4-105	M4-105	M4-105
Date Sampled			07/08/88	10/12/88	12/21/85	03/27/86	10/08/86	10/08/86	01/07/87	04/22/87	08/11/87	10/23/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/11/88	10/14/88	12/26/85	04/03/86	10/10/86	10/10/86	01/09/87	04/27/87	08/17/87	10/29/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDA				
Lab Analysis												FDA
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	220	420	ND	0.26	ND	ND	ND	ND
Trichloroethane	3400	NE	ND	ND	ND	ND	0.52	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MJ = Monitoring Well  
 FA = First field duplicate analysis  
 FB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantization  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Level	M4-105	M4-105	M4-105	M4-106	M4-106	M4-106	M4-106	M4-106	M4-106	M4-106
Date Sampled	NE	NE	01/22/88	04/26/88	07/19/88	10/13/88	11/21/88	03/13/86	09/18/86	01/05/87	01/05/87	04/21/87
Sampled By	NE	NE	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed	NE	NE	01/26/88	04/28/88	07/21/88	10/17/88	11/24/88	03/19/86	09/23/86	01/06/87	01/06/87	04/22/87
Lab	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethane	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethane	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromodichloroethane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethylvinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzofuran	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(100)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-106	M4-106	M4-106	M4-106	M4-106	M4-107	M4-107	M4-107	M4-107	M4-107
Date Sampled			10/09/87	01/25/88	04/18/88	04/18/88	04/18/88	07/13/88	10/05/88	11/07/85	04/01/86	04/23/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/12/87	01/27/88	04/19/88	04/19/88	07/14/88	10/06/88	11/12/85	04/05/86	09/24/86	04/24/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FDA	FDA						
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	DOS Action Level	U.S. EPA Primary MCL	DATE Sampled By	DATE Analyzed Lab	DATE Field Analysis Lab Analysis	WELL NUMBER	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Chloroethane	NE	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Bromoethane	NE	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Vinyl chloride	2	1	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Chloroethene	NE	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Methylene chloride	40	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Trichloroethene	3400	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,1-Dichloroethene	6	7	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,1-Dichloroethane	20	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Chloroform	100	100	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,2-Dichloroethane	1	5	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,1,1-Trichloroethane	200	200	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Carbon tetrachloride	5	5	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Bromodichloroethane	100	100	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,2-Dichloropropane	10	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Trichloroethene	5	5	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Dibromochloroethane	100	100	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,1,2-Trichloroethane	100	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
2-Chloroethylvinyl ether	NE	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Benzofuran	100	100	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Tetrachloroethane	4	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
Chlorobenzene	30	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,3-Dichlorobenzene	130	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,2-Dichlorobenzene	130	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,4-Dichlorobenzene	(LOD)0.5	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	MA-107	MA-107	MA-107	MA-107	MA-108	MA-108	MA-108	MA-108	MA-108

ALL UNITS ARE ug/l  
M = Monitoring Well

RADIUM = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority MCL	DATE	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER
Date Sampled			07/30/87	M4-108	07/30/87	M4-108	07/30/87	M4-108	07/30/87	M4-108
Sampled By			RADIANT		RADIANT		RADIANT		RADIANT	
Date Analyzed			08/03/87	M4-108	08/03/87	M4-108	08/03/87	M4-108	08/03/87	M4-108
Lab			SAC		SAC		SAC		SAC	
Field Analysis										
Lab Analysis										
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	0.82C(1.32)	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 MW = Monitoring Well  
 RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		DATE		ANALYST		DATE		ANALYST		DATE		ANALYST	
	Action	Priority	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109
	Level	MCL														
Date Sampled			01/14/88	04/18/88	07/12/88	10/05/88	11/06/88	03/31/86	09/19/86	01/05/87	04/23/87	07/29/87	10/21/87			
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN			
Date Analyzed			01/15/88	04/21/88	07/14/88	10/06/88	11/11/88	04/03/86	09/24/86	01/06/87	04/24/87	07/30/87	10/23/87			
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC			
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	15	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	NO	NO	NO	NO	0.67	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofluoride	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NE = Not established

LOQ = Limit of quantitation

C = Analysis confirmed in second column analysis

NA = Not analyzed

NO = Nothing detected



[illegible]

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LQ = Limit of quantitation  
P or PC = Identity previously confirmed  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
CES = Concrete Environmental Services  
SAC = Radian Analytical Services, Sacramento

UDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Priority MCL	DATE	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER
Date Sampled			09/22/86	09/22/86	01/09/87	04/24/87	07/29/87	10/19/87	10/19/87	01/15/88	04/26/88	07/11/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			09/24/86	09/24/86	01/16/87	04/27/87	07/30/87	10/21/87	11/03/87	01/19/88	04/28/88	07/12/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	CES	SAC	SAC	SAC
Field Analysis			LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Lab Analysis			LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

MW = Monitoring Well  
LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento  
CES = Central Environmental Services  
SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LQ = Limit of quantitation  
NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary ML	WELL NUMBER									
			M4-113	M4-113	M4-113	M4-113	M4-113	M4-113	M4-113	M4-114	M4-114	M4-114
Date Sampled			11/06/86	01/09/87	04/24/87	07/29/87	10/19/87	01/15/88	04/26/88	07/11/88	11/11/88	02/28/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/11/86	01/16/87	04/27/87	07/30/87	10/21/87	01/18/88	04/28/88	07/12/88	11/15/88	03/11/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	13
Trichloroethers	3400	NE	0.39	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethers	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.31
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.10
1,2-Dichloroethers	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethers	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.21
Dibromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethers	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodifluoromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethers	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethers	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
MW = Monitoring Well  
RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-114	M4-114	M4-114	M4-114	M4-114	M4-114	M4-114	M4-114	M4-114	M4-115
Date Sampled			01/13/87	04/21/87	08/12/87	10/15/87	01/07/88	01/07/88	04/21/88	07/12/88	10/10/88	12/19/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/19/87	04/23/87	08/18/87	10/19/87	01/08/88	04/25/88	04/25/88	07/13/88	10/11/88	12/23/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	1.3C(1.32)	NO	NO	NO	NO	NO	680
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	0.16C	NO	0.15C	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	0.30C	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority	WELL NUMBER	M4-115	M4-115	M4-115	M4-115	M4-115	M4-115	M4-115	M4-115	M4-115
		MCL										
Date Sampled				03/06/86	10/09/86	01/19/87	04/20/87	07/27/87	07/27/87	01/07/88	01/07/88	04/22/88
Sampled By				RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed				03/17/86	10/13/86	01/22/87	04/23/87	07/28/87	07/28/87	01/08/88	01/08/88	04/26/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis								LDA	LDB			
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

NE = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

CES = Ceramite Environmental Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	Well Number	M4-115	M4-116	M4-116	M4-116	M4-116	M4-116	M4-116	M4-116	M4-116
Date Sampled				10/03/88	11/11/85	11/11/85	11/11/85	02/28/86	02/28/86	09/26/86	01/14/87	04/27/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/04/88	11/15/85	11/15/85	11/15/85	03/11/86	03/11/86	09/29/86	01/19/87	04/30/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				PTA	PTA	PTB	PTB	LDA	LDB	LDB	LDB	LDB
Lab Analysis												
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 PTA = First field duplicate analysis  
 PTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

**MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)**

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-116	M4-116	M4-116	M4-117	M4-117	M4-118	M4-118	M4-119	M4-119	
Date Sampled		01/13/88	04/11/88	07/06/88	10/10/88	04/20/86	10/20/86	03/25/86	10/21/86	03/05/86		
Sampled By		RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed		01/14/88	04/12/88	07/07/88	10/11/88	04/22/86	10/22/86	03/31/86	10/22/86	03/15/86		
Lab		SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC		
Field Analysis							FDA			LDA		
Lab Analysis							FTB			LTB		
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND		
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND		
Phyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND		
Methylene chloride	40	NE	ND	ND	ND	ND	1.38	ND	3.68(1.32)	ND		
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	0.6	ND		
1,1,1-Trichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,1-Dichloroethane	20	NE	0.29FC	0.35FC	ND	ND	ND	ND	ND	ND		
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroform	100	100	ND	ND	ND	0.6	2.3C	ND	0.95	ND		
1,2-Dichloroethane	1	5	ND	ND	ND	0.2	1.0C	ND	ND	ND		
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND		
Bromo trichloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND		
Bromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	0.15G	ND	ND	ND		
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND		
Trichloroethane	5	5	ND	ND	ND	17	19C	21C	1.0	ND		
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,1,2-Tetrachloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND		
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,3-Dichloropropyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND		
Benzonitrile	100	100	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND		
trans-1,2-Dichloroethane	4	NE	0.12FC	0.17FC	ND	ND	ND	ND	ND	ND		
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND		
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND		
1,1,1,2-Tetrachloroethane	(100)0.5	NE	ND	NA	NA	ND	NA	NA	NA	NA		

ALL UNITS ARE 1/1

MW = Monitoring Well  
 FTA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 LTA = First Laboratory duplicate analysis  
 LTB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NU = Not analyzed

B = Compound detected in Laboratory blank - not edited

C = Analysis confirmed in second column analysis

NOTATION:  $\rho = 0.01$   $\rho = 0.05$   $\rho = 0.1$   $\rho = 0.2$   $\rho = 0.5$   $\rho = 1$

P or PC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

( ) = Data not established  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority	WELL NUMBER									
			M4-119	M4-120	M4-120	M4-120	M4-120	M4-120	M4-120	M4-120	M4-120	M4-120
Date Sampled			10/20/86	04/20/86	10/13/86	10/13/86	01/20/87	01/20/87	04/20/87	08/08/87	10/22/87	01/23/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/22/86	04/22/86	10/17/86	10/17/86	01/26/87	01/23/87	04/23/87	08/10/87	10/27/87	01/25/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDA	FDA	FDA	FDA				
Lab Analysis												
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	128	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	0.15	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	1.2	1.8C	1.9C	1.9C	0.90C	0.85C	0.77C	0.68C	18C	9.6C
1,2-Dichloroethane	1	-	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.34C
1,1,1-Trichloroethene	200	2A	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.19C
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	24	20C	20C	19.30C	17.35	25C	26C	9.3C	7.8C
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MJ = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	Primary MCL	WELL NUMBER									
					M4-120	M4-120	M4-120	M4-120	M4-120	M4-121	M4-121	M4-121	M4-121	M4-121
Date Sampled					04/13/88	07/11/88	07/11/88	07/11/88	07/11/88	02/26/86	10/13/86	01/23/87	04/25/87	08/01/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					04/15/88	08/02/88	07/12/88	07/12/88	07/12/88	03/10/86	10/16/86	01/29/87	04/28/87	08/10/87
Lab					SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDA	FTB					
Lab Analysis						LDA	LDA	LDA	LDA					
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE			NO	NO	NO	NO	NO	NO	0.36	NO	NO	NO
1,1-Dichloroethane	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			17FC	NO	11C	0.45C	0.38C	7.6C	NO	NO	NO	NO
1,2-Dichloroethane	1	5			0.56FC	NO	0.34C	0.16C	0.15C	0.18C	NO	NO	NO	NO
2,1,1-Trichloroethane	200	200			0.24FC	NO	0.14C	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			12FC	NO	9.1C	9.8C	9.1C	6.2C	0.2	NO	NO	NO
Dibromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LQ)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NE = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

P or FC = Identity previously confirmed

NE = Not established

RADIAN = Radian Corporation, Sacramento

CES = Ceramite Environmental Services

SAC = Radian Analytical Services, Sacramento

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-121	M4-121	M4-121	M4-121	M4-121	M4-122	M4-122	M4-122	M4-122	M4-122
Date Sampled			10/22/87	01/23/88	04/20/88	07/11/88	10/19/88	11/12/86	01/26/87	05/07/87	08/08/87	10/22/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/27/87	01/29/88	04/22/88	07/12/88	10/20/88	11/20/86	01/29/87	05/12/87	08/10/87	10/27/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	0.14	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-122	M4-122	M4-122	M4-122	M4-123	M4-124	M4-124	M4-124	M4-125	M4-126
Date Sampled	NE	NE	01/23/88	04/19/88	07/18/88	10/12/88	04/04/88	10/21/88	02/25/88	11/24/88	02/25/88	03/03/88
Sampled By	NE	NE	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed	NE	NE	01/25/88	04/22/88	07/19/88	10/14/88	04/09/88	10/22/88	03/10/88	12/01/88	03/10/88	03/12/88
Lab	NE	NE	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis										LDA	LDB	
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	6.1	2.1BC(1.32)	1.5(4.2)	NO	NO	3.0(4.2)
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	0.2IC	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	4.9	0.76	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	0.2	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	0.5	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	3.1	7.1C	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NO	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR MIXED BOD ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	ML	M4-127	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128
Date Sampled					03/04/86	10/24/86	12/05/86	01/16/87	04/16/87	08/12/87	09/17/87	10/23/87	01/13/88	04/12/88
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed					03/14/86	10/29/86	12/09/86	01/21/87	04/17/87	08/18/87	09/22/87	10/30/87	01/14/88	04/15/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis									FIA	FIB				
Lab Analysis														
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	NE		ND	ND	ND	ND	ND	ND	1.2L	ND	ND	ND
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			2.6(4.2)	ND	ND	ND	5.1C	ND	1.1L	ND	ND	ND
Trichloroethylene	3400	NE			ND	ND	ND	ND	ND	4.9C	ND	ND	ND	ND
1,1-Dichloroethane	6	7	NE		ND	ND	ND	ND	ND	ND	5.3L	ND	ND	ND
1,1-Dichloroethene	20	NE			ND	ND	ND	ND	1.2L	ND	1.2L	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	ND	ND	25.0L	ND	40.0L	ND	ND	530C
Chloroform	100	100	NE		ND	ND	ND	ND	5.0L	ND	5.0L	ND	ND	ND
1,2-Dichloroethane	1	5	NE		ND	ND	ND	ND	6.0L	ND	7.0L	ND	ND	ND
1,1,1-Trichloroethane	200	200	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE			ND	ND	ND	ND	1.0L	ND	1.0L	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	NE		ND	1.3	41000C	2800C	2700C	5500C	3600C	2700C	1900C	2700C
Dibromochloroethane	100	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	0.15	ND	ND	1.0L	2.0L	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	5.1L	4.2L	9.1L	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	6.3L	4.0L	3.7L	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	5.7L	4.4L	5.3L	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NA = Nothing detected

ND = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

DL = Diluted out of the confirmation run

P or EC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

FIA = First field duplicate analysis

FIB = Second field duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-128	M4-128	M4-128	M4-128	M4-128	M4-129	M4-129	M4-129	M4-129	M4-129
Chloroethene	NE	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Bromoethene	NE	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Vinyl chloride	2	1	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Chloroethane	NE	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Methylene chloride	40	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Trichloroethene	3400	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,1-Dichloroethene	6	7	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,1-Dichloroethane	20	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Total 1,2-Dichloroethene	16	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Chloroform	100	100	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,2-Dichloroethane	1	5	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,1,1-Trichloroethene	200	200	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Carbon tetrachloride	5	5	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Bromochloroethene	100	100	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,2-Dichloropropane	10	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Trans-1,3-dichloropropene	NE	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Trichloroethene	5	5	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Dibromochloroethene	100	100	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,1,2-Trichloroethene	100	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
cis-1,3-Dichloropropene	87	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
2-Chloroethyl vinyl ether	NE	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Benzene	100	100	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,1,2,2-Tetrachloroethene	NE	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Tetrachloroethene	4	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
Chlorobenzene	30	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,3-Dichlorobenzene	130	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,2-Dichlorobenzene	130	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87
1,1,1,2-Tetrachloroethene	NE	NE	NE	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	12/05/86	01/16/87	04/15/87	08/12/87	10/23/87

ALL UNITS ARE ug/l

NA = Nothing detected  
 NE = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

RADIAN = Radian Corporation, Sacramento  
 CES = Cerate Environmental Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-129	M4-129	M4-129	M4-130	M4-130	M4-130	M4-130	M4-130	M4-130	M4-130
Date Sampled			01/13/88	04/12/88	07/12/88	10/10/88	11/13/88	01/16/87	07/29/87	07/29/87	10/27/87	10/27/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/14/88	04/13/88	07/13/88	10/14/88	11/20/88	01/21/87	07/30/87	07/30/87	10/30/87	10/30/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	11C	27C	230C	99C	2.6C	1.9C	4.0C	4.0C	1.2C	1.1C
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NO	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FD = First field duplicate analysis

FD = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYSES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DBS	U.S. EPA	Action Level	Primary MCL	WELL NUMBER									
					M4-130	M4-130	M4-130	M4-130	M4-130	M4-130	M4-130	M4-131	M4-131	M4-131
Date Sampled					01/13/88	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	10/10/88	11/19/88	11/19/88	01/19/87
Sampled by					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed					01/14/88	04/13/88	08/02/88	07/14/88	07/14/88	07/14/88	10/11/88	12/02/88	12/02/88	01/22/87
Lab					SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			2.9FC	2.7FC	2.7C	3.4P	2.8P	3.0P	2.0P	2.0P	2.0P	2.0P
1,1-Dichloroethane	20	NE			3.8FC	3.5C	5.2C	4.6P	4.2P	4.7P	6.0P	6.0P	6.0P	6.0P
Total 1,2-Dichloroethane	16	NE			0.39C	0.38FC	ND	0.66P	0.66P	0.79P	0.41P	0.40P	0.40P	0.40P
Chloroform	100	100			0.29FC	0.28FC	ND	0.28P	0.28P	0.37P	0.17P	0.17P	0.17P	0.17P
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			0.61FC	0.51FC	ND	0.47P	0.44P	0.70P	0.61P	0.47P	0.47P	0.47P
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			2.0FC	2.2FC	1.5C	2.7P	2.0P	2.2P	1.5P	2.7C	2.7C	1.9C
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

NE = First field duplicate analysis

ND = Second field duplicate analysis

FD = First laboratory duplicate analysis

LD = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

CES = Central Environmental Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LDQ = Limit of quantitation

IL = Diluted out of the confirmation run

P or FC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

Analytical data for M4-137, M4-140 and M4-141 appear under B4-137, B4-140 and B4-141

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-131	M4-131	M4-131	M4-131	M4-131	M4-131	M4-131	M4-131	M4-131	M4-131
Date Sampled			01/19/87	04/28/87	08/07/87	10/14/87	10/14/87	10/14/87	01/19/88	04/13/88	07/13/88	07/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/22/87	04/30/87	08/13/87	10/16/87	10/16/87	10/16/87	01/20/88	04/14/88	07/15/88	07/15/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB									FTB
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	6.0	11C	34C	22C	27C	14C	0.30C	24PC	21C	21P
Chloroform	100	100	ND	ND	ND	ND	ND	ND	0.40C	1.0C	1.7C	1.1P
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	0.31C	0.45PC	1.0C	1.1P
1,1,1-Trichloroethane	200	200	ND	0.24C	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	1.9C	30C	120C	40C	55C	32C	52PC	45C	90C	98P
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NA = Nothing detected

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (SHEED 601 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Priority	WELL NUMBER	M4-131	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132
Date Sampled				10/04/88	11/24/86	01/21/87	05/15/87	07/29/87	10/24/87	10/24/87	10/24/87	01/22/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/05/88	12/01/86	01/26/87	05/19/87	07/30/87	10/29/87	10/29/87	10/29/87	01/25/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloromethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE		0.26LL	0.26LL	0.26LL	0.26LL	0.26LL	0.26LL	0.26LL	0.26LL	0.26LL
1,1-Dichloroethane	6	7	NE	0.33LL	0.33LL	0.33LL	0.33LL	0.33LL	0.33LL	0.33LL	0.33LL	0.33LL
1,1,2-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		31P	19	ND	25C	28C	28C	28C	28C	28C
Chloroform	100	100	NE	ND	0.51LL	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	NE	ND	0.70LL	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	NE	72P	90C	62C	100C	110C	110C	110C	110C	110C
Dibromochloromethane	100	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 DL = Diluted out of the confirmation run  
 P or PC = Identity previously confirmed  
 NE = Not established

RADIAN = Radian Corporation, Sacramento  
 CES = Granite Environmental Services  
 SAC = Radian Analytical Services, Sacramento

M4 = Monitoring Well  
 FIA = First field duplicate analysis  
 FIB = Second field duplicate analysis

MASTER LOG OF WELLS SAMPLED FOR MONITORING 8010 ANALYTES (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-133	M4-133
Date Sampled			04/20/88	04/20/88	07/18/88	07/18/88	07/18/88	10/13/88	10/13/88	02/08/88	04/14/88	07/11/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			04/22/88	05/03/88	08/01/88	07/19/88	07/19/88	10/17/88	10/17/88	02/10/88	04/15/88	07/12/88
Lab			SAC	CES	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FOA	FOA	FOA	FOA			
Lab Analysis						LDA	LDA					
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	22C	ND	ND	36P	36P	32P	32P	ND	ND	ND
Chloroform	100	100	ND	1.0C	ND	ND	ND	0.87P	0.79P	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	0.86P	0.74P	ND	0.55P	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	48C	47C	85C	92P	82P	92P	92P	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 NE = Not established

RADIANT = Radiant Corporation, Sacramento  
 CES = Granite Environmental Services  
 SAC = Radiant Analytical Services, Sacramento

FW = First field duplicate analysis  
 FB = Second field duplicate analysis  
 LD = First laboratory duplicate analysis  
 LB = Second laboratory duplicate analysis



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER									
			Action	Primary	M4-133	M4-134	M4-134	M4-134	M4-135	M4-135	M4-135	M4-136
	Level	MCL										
Date Sampled			10/06/88	02/08/88	02/08/88	04/14/88	07/11/88	10/06/88	02/08/88	04/14/88	07/11/88	11/08/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/07/88	02/10/88	02/10/88	04/15/88	07/12/88	10/07/88	02/10/88	04/15/88	07/12/88	11/10/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB								
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantization

P or PC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDE ANALYTES OBTAINED PRIOR TO OCTOBER 1988

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	M4-136	M4-136	M4-136	M4-136	M4-136	M4-136	M4-136	M4-136	M4-136	M4-136
Date Sampled			03/10/88	04/25/88	07/14/88	10/10/88	10/10/88	03/11/88	03/11/88	04/22/88	07/14/88	10/07/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			03/10/88	04/27/88	05/03/88	07/15/88	10/14/88	03/15/88	03/15/88	04/26/88	07/18/88	10/10/88
Lab			CES	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloromethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromomethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	5.1	NO	9C	7.4C	3.1P	4.2P	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	4.7	NO	NO	8.8C	6.1P	8.1P	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloromethane	5	5	230	220PC	230C	470C	260P	360P	NO	NO	NO	NO
Dibromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloro-2-methylpropyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NO	NO	NA	NA	NA	NO

ALL UNITS ARE ug/l

NA = Not analyzed

PC = First field duplicate analysis

NE = Second field duplicate analysis

RADIANT = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

Presumptive	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
				M4-139	M4-139	M4-139	M4-142	M4-142	M4-143	M4-143	M4-143	M4-143	
Chloroethane	02/09/88 RADIAN	NE	NE	NO	NO	10/14/88 RADIAN	02/09/88 RADIAN	04/26/88 RADIAN	10/18/88 RADIAN	02/10/88 RADIAN	02/10/88 RADIAN	04/26/88 RADIAN	07/22/88 RADIAN
Bromobenzene	02/10/88 SAC	NE	NE	NO	NO	10/18/88 SAC	02/10/88 SAC	04/28/88 SAC	10/19/88 SAC	02/11/88 SAC	02/11/88 SAC	04/28/88 SAC	07/25/88 SAC
Vinyl chloride		2	1	NO	NO								
Chloroethane		NE	NE	NO	NO								
Methylene chloride		40	NE	NO	NO								
Trichloroethene		3400	NE	NO	NO								
1,1,1-Trichloroethane		6	7	1.0C	NO								
1,1,2-Trichloroethane		20	NE	1.0C	1.3C	11P							
1,1,1,1-Tetrachloroethane		16	NE	24C	24C	34P							
Benzal 1,2-Dichloroethane		100	100	1.1C	NO								
Chloroform		1	5	1.8C	NO								
1,2-Dichloroethane		200	200	NO	NO								
1,1,1,1-Tetrachloroethane		5	5	NO	NO								
Carbon tetrachloride		100	100	NO	NO								
Bromochloroethane		10	NE	NO	NO								
1,2-Dichloropropane		NE	NE	NO	NO								
Trans-1,3-dichloropropene		5	5	89C	NO								
Trichloroethene		100	100	NO	NO	63P							
Dibromochloroethane		100	100	NO	NO								
1,1,1,1,2-Pentachloroethane		100	NE	NO	NO								
trans-1,3-Dichloropropene		67	NE	NO	NO								
trans-1,3-Dichloropropene		NE	NE	NO	NO								
trans-1,3-Dichloropropene		100	100	NO	NO								
1,1,1,1,2,2-Hexachloroethane		NE	NE	NO	NO								
1,1,1,2,2-Pentachloroethane		4	NE	NO	NO								
Chlorobenzene		30	NE	NO	NO								
1,3-Dichlorobenzene		130	NE	NO	NO								
1,2-Dichlorobenzene		130	NE	NO	NO								
1,4-Dichlorobenzene		10000.5	NE	NO	NO								
1,1,1,1,2-Pentachloroethane		NE	NE	NA	NA								

**ALL UNITS ARE W/1**

ITM 88205724 - 100

L1D1A = First Laboratory duplicate analysis  
L1D1B = Second Laboratory duplicate analysis

**UD3 - Second Laboratory duplicate analysis**

RADIAN = Rad/Lan Component Lon, Sacramento

SAC - Radlan Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

**C = Analysis confirmed in**

100 = limit of quantitation

**P or PC = Identity previously confirmed**

**NE = Not established**

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled By Date Analyzed Lab	Field Analysis Lab	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
					M4-143	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000
	10/05/88 RADIAN 10/06/88 SAC				10/05/88 RADIAN 10/06/88 SAC	12/12/85 RADIAN 12/21/85 SAC	03/07/86 RADIAN 03/14/86 SAC	10/03/86 RADIAN 10/06/86 SAC	01/13/87 RADIAN 01/19/87 SAC	04/27/87 RADIAN 04/29/87 SAC	08/01/87 RADIAN 08/04/87 SAC	10/08/87 RADIAN 10/09/87 SAC	01/13/88 RADIAN 01/14/88 SAC	04/20/88 RADIAN 04/29/88 SAC
Chloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	0.69	NO	NO	1.5C	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	2.8C	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	0.23	NO	25C	NO	NO	NO	0.16C
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	0.83B	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	0.30	NO	0.94C	0.86C	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	0.11	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
B = Compound detected in Laboratory blank - not edited  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Level	M4-1000	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001
Date Sampled			10/04/88	12/18/85	04/04/86	10/15/86	01/26/87	05/08/87	08/08/87	10/09/87	10/09/87	01/20/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			10/05/88	12/23/85	04/09/86	10/20/86	01/29/87	05/12/87	08/10/87	10/12/87	10/12/87	01/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	310	18	ND	ND	NR	ND	ND	ND	ND
Trichloroethane	3400	NE	ND	ND	ND	0.56	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorobenzene	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well  
 LDA - First laboratory duplicate analysis  
 LDB - Second laboratory duplicate analysis

RADIANT - Radiant Corporation, Sacramento  
 CES - Central Environmental Services  
 SAC - Radiant Analytical Services, Sacramento

ND - Nothing detected  
 NR - Not reported  
 NA - Not analyzed  
 LOQ - Limit of quantitation  
 ( ) - Data decision criterion (DDC). Indicates result below DDC.  
 NE - Not established

MASTER LOG OF WELLS SAMPLED PER METHOD 8010 ANALYTES OBTAINED 601 PRIOR TO OCTOBER 1988

Parameter	DHS	U.S. EPA	Action	Primary	WELL NUMBER									
					M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1002	M4-1002	M4-1002	M4-1002
			Level	ML										
Date Sampled					01/20/88	04/27/88	04/27/88	07/22/88	10/18/88	11/07/85	11/07/85	04/02/86	04/02/86	09/25/86
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					01/21/88	04/29/88	04/29/88	07/26/88	10/19/88	11/12/85	11/12/85	04/06/86	04/06/86	09/26/86
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						PTA	PTB					PTA	PTB	
Lab Analysis					LIB					LIB	LIB			
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	ND	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NE = Not detected  
 NA = Not analyzed  
 PTA = First field duplicate analysis  
 PTB = Second field duplicate analysis  
 LIB = First laboratory duplicate analysis  
 LIB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in laboratory blank - not edited  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

ALL UNITS ARE ug/l  
 MW = Haulcoating 4411  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METRO 8010 ANALYTES (METRO 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-1003	M4-1003	M4-1003	M4-1003	M4-1003	M4-1003	M4-1003	M4-1004	M4-1004	M4-1004
	Level	MCL										
Date Sampled			05/08/87	08/08/87	08/08/87	10/09/87	01/20/88	07/22/88	10/18/88	12/18/85	12/18/85	03/18/86
Sampled by			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			05/12/87	08/11/87	08/11/87	10/12/87	01/21/88	07/26/88	10/19/88	12/23/85	12/23/85	03/20/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB	LDB					LDA	LDB	
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	0.6(4.2)	0.7(4.2)	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	120	50	7.3
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	11	NO	7.3
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	4.0
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.2
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	2.1	2.1	3.2
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	1.5	1.6	0.5
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	14	14	15
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Level	M4-100A	M4-100A	M4-100A	M4-100A	M4-100A	M4-100A	M4-100A	M4-100A	M4-100A	M4-100A
Date Sampled			09/29/86	01/26/87	05/08/87	08/08/87	10/09/87	10/09/87	10/09/87	01/20/88	04/27/88	04/27/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			10/02/86	02/05/87	05/12/87	08/11/87	10/12/87	10/12/87	10/13/87	01/21/88	05/02/88	05/02/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FOA	FOA	FOA	FOA	FOA	FOA	FOA	FOA	FOA	FOA
Lab Analysis												
Chloromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	2.3C	NR	NR	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	100C	90C	160C	150C	41C	23C	15C	14PC	14PC	14PC
1,1,1-Trichloroethane	20	NE	8.7C	9.2C	8.8C	6.3C	2.4C	2.6C	1.9C	0.9PC	0.9PC	0.74PC
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	1.7C	1.9C	0.54C	0.39C	0.39C	0.45PC
Chloroform	100	100	ND	ND	ND	ND	0.24C	0.30C	ND	ND	ND	ND
1,2-Dichloroethane	1	5	1.9C	ND	ND	ND	0.79C	0.88C	0.48C	0.24PC	0.24PC	0.28PC
1,1,1-Trichloroethane	200	200	1.4C	1.5C	ND	ND	0.90C	1.1C	0.6PC	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	26C	23C	27C	24C	6.2C	7.2C	3.2C	2.6PC	2.6PC	2.4PC
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NA = Monitoring Well  
 FOA = First field duplicate analysis  
 FDB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento  
 CES = Granite Environmental Services  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER									
			Action	Primary	MC	M4-1004	M4-1004	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005
Date Sampled						07/22/88	10/18/88	12/17/85	03/14/86	09/25/86	09/25/86	01/09/87
Sampled by						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed						07/26/88	10/19/88	12/23/85	03/19/86	09/29/86	09/29/86	01/19/87
Lab						SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1				ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE				ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE				ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE				ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7				1.2C	1.4C	1.6C	1.1C	1.1C	1.1C	1.1C
1,1-Dichloroethane	20	NE				1.8C	0.84C	41	14	26C	25C	12C
Total 1,2-Dichloroethene	16	NE				0.76C	0.28C	43	ND	ND	ND	ND
Chloroform	100	100				ND	ND	0.7	0.2	ND	ND	ND
1,2-Dichloroethane	1	5				0.25C	0.20C	5	9.1	13C	13C	5.7C
1,1,1-Trichloroethane	200	200				ND	ND	16	5.0	1.78C	1.68C	2.6C
Carbon tetrachloride	5	5				ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100				ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	5	5				2.2C	2.4C	100	62	80C	76C	59C
Dibromochloroethane	100	100				ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE				ND	ND	2.3	0.8	3.7C	3.7C	ND
cis-1,3-Dichloropropene	87	NE				ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE				ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100				ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE				ND	ND	ND	0.1	0.32C	0.32C	0.18C
Chlorobenzene	30	NE				ND	ND	ND	ND	0.21C	0.21C	ND
1,3-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE				ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE				NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NE = Not established

MC = Monitoring well

FD = First field duplicate analysis

FD = Second field duplicate analysis

FD = First laboratory duplicate analysis

FD = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NC = Result was not confirmed in second column analysis

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LDQ = Limit of quantitation

DL = Diluted out of the confirmation ...

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005
Date Sampled			04/16/87	07/31/87	10/15/87	10/15/87	10/15/87	01/19/88	01/19/88	04/27/88	07/19/88	07/19/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/21/87	08/03/87	10/19/87	10/19/87	10/19/87	01/20/88	01/20/88	05/03/88	07/29/88	07/29/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis			LDB									LDA
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	150C	270C	79C	79C	79C	51PC	51PC	36C	32C	32C
1,1-Dichloroethane	20	NE	16C	19C	7.5C	7.5C	7.5C	5.2PC	5.2PC	2.2PC	4.6C	7.4P
Total 1,2-Dichloroethane	16	NE	13C	13C	14C	14C	11C	4.5C	4.5C	2.5PC	NO	4.8P
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	6.0C	NO	5.1C	5.1C	3.8C	2.2PC	2.2PC	1.1PC	2.1C	1.0P
1,1,1-Trichloroethane	200	200	3.3C	2.3C	NO	NO	NO	NO	NO	NO	1.1C	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	54C	77C	86C	22C	22C	15PC	15PC	10C	9.1C	9.4P
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	0.2A	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NE = Nothing detected

NA = Not analyzed

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Carle Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	IHS		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-1005	M4-1005	M4-1005	M4-1005	M4-1009	M4-1009	M4-1009	M4-1009	M4-1009	M4-1009
Date Sampled					07/19/88	07/19/88	10/17/88	10/17/88	12/19/85	03/21/86	10/09/86	02/03/87	04/17/87	07/31/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					07/21/88	07/21/88	10/18/88	10/18/88	12/23/85	04/01/86	10/13/86	02/05/87	04/21/87	08/03/87
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FDA	FDA	FDA	FDA						
Lab Analysis					LFB	LFB								
Chloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NE	NE	NO	NO	NO	NO	NO	NO	0.71	NO	NO	1.1C(1.32)
1,1-Dichloroethane	6	7	40P	33C	33P	33P	32P	32P	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	8.4P	5.9P	4.9P	4.9P	4.8P	4.8P	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	4.8P	3.4C	2.5P	2.5P	2.5P	2.5P	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	0.80P	1.0C	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	5.1C	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	14P	9.7C	11P	11P	9.7P	9.7P	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NO	NO	NO	NO	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LFB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (SHEED 601 PRIOR TO OCTOBER 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER	M4-1009	M4-1009	M4-1009	M4-1010	M4-1010	M4-1010	M4-1010	M4-1010	M4-1010
Date Sampled				01/18/88	01/18/88	04/19/88	07/26/88	10/12/88	04/08/86	10/23/86	01/13/87	07/31/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				01/19/88	01/19/88	04/22/88	07/27/88	10/17/88	04/10/86	10/24/86	01/19/87	08/03/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				PTB	PTB				PTB			
Lab Analysis				PTA	PTA				PTA			
Chloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NO	NO	NO	NO	NO	12	12	NO	NO
Trichloroethylene	3400	NE	NE	NO	NO	NO	NO	NO	NO	0.25	NO	NO
1,1-Dichloroethane	6	7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethene	10	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	67	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MW = Monitoring Well

PTA = First field duplicate analysis

PTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority WCL	WELL NUMBER										
			M4-1010	M4-1010	M4-1010	M4-1010	M4-1010	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	
Date Sampled			10/15/87	01/18/88	04/25/88	07/19/88	10/12/88	11/05/85	03/27/86	10/06/86	01/06/87	04/27/87	08/05/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/18/87	01/19/88	04/27/88	07/21/88	10/17/88	11/11/85	03/31/86	10/09/86	01/08/87	04/29/87	08/07/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NR	NR	NR	NR	NR	NR	7.9	11	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropene	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NO	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NA = Monitoring Well

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER									
	Acc'n Level	MC	M4-1011	M4-1011	M4-1011	M4-1011	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012
Data Sampled			10/22/87	01/25/88	04/22/88	07/15/88	10/04/88	11/15/85	03/06/86	09/24/86	01/23/87	05/05/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed			10/28/87	01/27/88	04/26/88	07/20/88	10/05/88	11/22/85	03/17/86	09/26/86	01/27/87	05/06/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	0.47	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	0.2	NO	NO	NO
1,1,1-Trichloroethane	200	200	0.25C	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzonitrile	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 MW = Monitoring Well  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

[illegible]

MW = Monitoring Well  
 FTA = First field duplicate analysis  
 LTA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAM - Radiam Corporation, Sacramento  
SAC - Radiam Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR PERIOD 8010 ANALYTES OPENED 601 PRIOR TO OCTOBER 1988

Parameter	U.S. EPA Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			MA-1013	MA-1013	MA-1013	MA-1013	MA-1013	MA-1013	MA-1013	MA-1013	MA-1013	MA-1013
Date Sampled			04/20/87	04/20/87	08/03/87	08/03/87	10/22/87	10/22/87	10/22/87	01/19/88	04/22/88	07/15/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			04/22/87	04/22/87	08/06/87	08/06/87	10/28/87	10/28/87	01/20/88	04/26/88	07/20/88	10/12/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Lab Analysis			LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MA = Monitoring Well  
 YES = Second field duplicate analysis  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER									
	Action	Primary	MA-1014	MA-1014	MA-1014	MA-1014	MA-1014	MA-1014	MA-1014	MA-1014	MA-1014	MA-1014
Level	MOI											
Date Sampled			11/14/85	11/14/85	03/12/86	10/06/86	01/16/87	04/27/87	08/03/87	10/26/87	03/25/88	04/27/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			11/15/85	11/22/85	03/18/86	10/09/86	01/21/87	04/29/87	08/05/87	10/29/87	01/27/88	04/29/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB								
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	0.51	ND	ND	0.700(1.32)	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS: mg/l

MA = Monitoring Well  
LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento  
SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1986)

Parameter	DES	U.S. EPA Action Level	Primary ML	WELL NUMBER									
				M4-1014	M4-1014	M4-1015	M4-1015	M4-1015	M4-1015	M4-1015	M4-1015	M4-1015	M4-1015
Date Sampled				10/27/88	10/27/88	12/14/85	03/25/86	10/07/86	01/14/87	05/04/87	08/01/87	10/17/87	04/22/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				11/01/88	11/01/88	12/21/85	03/31/86	10/10/86	01/20/87	05/06/87	08/05/87	10/20/87	04/26/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDB								
Lab Analysis													
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	17	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	0.31	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	0.1	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis

MASTER LOG OF WELLS SAMPLED FOR MIXED BOD ANALYTES (EXTENDED 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1015	M4-1015	M4-1016	M4-1016	M4-1016	M4-1016	M4-1016	M4-1016	M4-1016	M4-1016
Dates Sampled			07/15/88	10/11/88	11/14/85	03/12/86	10/07/86	01/16/87	05/07/87	08/01/87	10/16/87	01/12/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab Analyzed			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Lab												
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	0.52	NO	NO	1.1C(1.32)	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	0.11	NO	0.33	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHEID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DES	U.S. EPA	Action Level	WELL NUMBER									
				M4-1016	M4-1016	M4-1016	M4-1017	M4-1017	M4-1017	M4-1017	M4-1017	M4-1017	M4-1017
Date Sampled				04/26/88	07/19/88	10/12/88	11/08/85	03/18/86	09/23/86	01/20/87	04/20/87	07/28/87	10/17/87
Sampled By				RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed				04/28/88	07/21/88	10/14/88	11/12/85	03/20/86	09/24/86	01/26/87	04/22/87	07/29/87	10/20/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	ND	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LDQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER									
	Action	Priority	M4-1017	M4-1017	M4-1017	M4-1018	M4-1018	M4-1018	M4-1018	M4-1018	M4-1018	M4-1018
Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
Date Sampled			04/20/88	07/12/88	10/13/88	11/18/85	03/12/86	09/23/86	02/04/87	05/01/87	08/04/87	10/08/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/22/88	07/14/88	10/17/88	11/24/85	03/18/86	09/24/86	02/05/87	05/05/87	08/07/87	10/09/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethene	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethene	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloropropane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethene	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(100)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NE = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
P or FC = Identity previously confirmed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1018	M4-1018	M4-1018	M4-1019	M4-1019	M4-1019	M4-1019	M4-1019	M4-1019	M4-1019
Date Sampled			04/13/88	07/23/88	10/20/88	10/20/88	12/19/88	04/08/86	09/24/86	01/09/87	04/20/87	08/07/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/15/88	07/26/88	10/21/88	10/21/88	12/21/88	04/10/86	09/26/86	01/16/87	04/22/87	08/13/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	1.3	3.0(4.2)	5.00C	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	1.48C	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	0.4	0.80NC	0.59C	2.0C	4.0C
Total 1,2-Dichloroethene	16	NE	0.28C	0.43C	0.32P	0.32P	0.5	0.1	0.34NC	0.21	0.43C	0.56C
Chloroform	100	100	NO	0.14C	NO	NO	NO	0.1	0.56NC	0.17C	0.31C	0.32C
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	0.2	NO	NO	NO	0.68C
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	0.60C	0.58C	0.58P	0.58P	0.5	2.0	1.6C	1.3C	2.6C	4.0C
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	67	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	4	NE	NO	NO	NO	NO	NO	0.4	NO	0.22C	1.1C	1.2C
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LUD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NO	NO	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

PDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NC = Result was not confirmed in second column analysis

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or FC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled By Date Analyzed Lab	U.S. EPA Action Level	HCL	WELL NUMBER									
				M4-1019	M4-1019	M4-1019	M4-1019	M4-1019	M4-1020	M4-1020	M4-1020	M4-1020	M4-1020
Chloroethene	NE	NE		10/21/87	01/25/88	01/25/88	04/22/88	07/11/88	10/12/88	11/08/85	03/07/86	10/03/86	01/13/87
Bromoethene	NE	NE		10/28/87	01/27/88	01/27/88	04/26/88	07/12/88	10/17/88	11/12/85	03/14/86	10/06/86	01/19/87
Vinyl chloride	2	1	NE										
Chloroethene	NE	NE											
Methylene chloride	40	NE											
Trichloroethene	3400	NE											
1,1-Dichloroethene	6	7	NE		0.11C	0.10C							
1,1-Dichloroethene	20	NE		1.4C	1.3C	1.3C	0.89C	1.8C	0.79C				
Total 1,2-Dichloroethene	16	NE		0.78C	0.53C	0.44C	0.28C	0.60C	0.30C			0.10	
Chloroethene	100	100		0.27C	0.30C	0.26C	0.12C	0.16C	0.12C				
1,1,1-Trichloroethene	1	5	NE										
Carbon tetrachloride	200	200		0.26C									
Bromodichloroethene	5	5	NE										
1,2-Dichloroethene	10	10	NE										
Trans-1,3-dichloropropene	NE	NE											
Trichloroethene	5	5	NE	1.5C	1.7C	1.3C	1.3C	1.3C	0.86C				
Dibromochloroethene	100	100											
1,1,2-Trichloroethene	100	NE											
cis-1,3-Dichloropropene	87	NE											
2-Chloroethylvinyl ether	NE	NE											
Bromoethene	100	100											
1,1,2,2-Tetrachloroethene	NE	NE											
Tetrachloroethene	4	NE		1.1C	0.61C	0.53C	0.43C	0.50C	0.55C			0.16	
Chlorobenzene	30	NE											
1,3-Dichlorobenzene	130	NE											
1,2-Dichlorobenzene	130	NE											
1,4-Dichlorobenzene	(LOD)0.5	NE											
1,1,1,2-Tetrachloroethene	NE	NE											

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FIB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

NE = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1020	M4-1020	M4-1020	M4-1020	M4-1020	M4-1020	M4-1020	M4-1021	M4-1021	M4-1021
Date Sampled			04/30/87	08/01/87	10/08/87	01/13/88	01/13/88	04/18/88	07/15/88	10/04/88	11/07/88	01/26/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/04/87	08/05/87	10/09/87	01/14/88	01/14/88	04/20/88	07/20/88	10/05/88	11/20/88	02/03/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FDA	FTB					
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (SHEED 601 PRIOR TO OCTOBER 1986)

Parameter	DATE	U.S. EPA Action Level	U.S. EPA Priority MCL	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER	DATE	WELL NUMBER
Date Sampled	04/27/87				04/27/87			04/27/87			04/27/87	
Sampled By	RADIAN				RADIAN			RADIAN			RADIAN	
Date Analyzed	04/29/87				04/29/87			04/29/87			04/29/87	
Lab	SAC				SAC			SAC			SAC	
Field Analysis												
Lab Analysis												
Chloroethane	NE				NE			NE			NE	
Bromoethane	NE				NE			NE			NE	
Vinyl chloride	2	1			NE			NE			NE	
Chloroethane	NE				NE			NE			NE	
Methylene chloride	40				NE			NE			NE	
Trichloroethene	3400				NE			NE			NE	
1,1-Dichloroethane	6				NE			NE			NE	
1,1-Dichloroethane	20				NE			NE			NE	
Total 1,2-Dichloroethane	16				NE			NE			NE	
Chloroform	100	100			NE			NE			NE	
1,2-Dichloroethane	1				NE			NE			NE	
1,1,1-Trichloroethane	200	200			NE			NE			NE	
Carbon tetrachloride	5				NE			NE			NE	
Bromochloroethane	100				NE			NE			NE	
1,2-Dichloroethane	10				NE			NE			NE	
Trans-1,3-dichloropropene	NE				NE			NE			NE	
Trichloroethene	5				NE			NE			NE	
Dibromochloroethane	100				NE			NE			NE	
1,1,2-Trichloroethane	100				NE			NE			NE	
cis-1,3-Dichloropropene	87				NE			NE			NE	
2-Chloroethylvinyl ether	NE				NE			NE			NE	
Bromoforn	100	100			NE			NE			NE	
1,1,2,2-Tetrachloroethane	NE				NE			NE			NE	
Tetrachloroethane	4				NE			NE			NE	
Chlorobenzene	30				NE			NE			NE	
1,3-Dichlorobenzene	130				NE			NE			NE	
1,2-Dichlorobenzene	130				NE			NE			NE	
1,4-Dichlorobenzene	(LOQ)0.5				NE			NE			NE	
1,1,1,2-Tetrachloroethane	NE				NE			NE			NE	

ALL UNITS ARE ug/l

NE = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

( ) = Data decision criterion (IDC). Indicates result below IDC.

NE = Not established

RADIAN = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

First field duplicate analysis

Second field duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHYLED BOD ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Well Number	M4-1022	M4-1022	M4-1022	M4-1022	M4-1022	M4-1022	M4-1022
Data Sampled Sampled By				01/23/87	04/27/87	09/03/87	10/20/87	10/20/87	10/20/87	11/24/87
Data Analyzed Lab				RADIANT SAC	RADIANT SAC	RADIANT SAC	RADIANT SAC	RADIANT SAC	RADIANT SAC	RADIANT SAC
Field Analysis Lab Analysis										
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE		ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE		ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100		ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE		ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5		ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100		ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LCO)0.5	NE		ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 PIA = First field duplicate analysis  
 PFB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LTB = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento  
 OSS = Caronde Environmental Services  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 P or FC = Identity previously confirmed  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	MCL	WELL NUMBER									
					M4-1022	M4-1022	M4-1023	M4-1023	M4-1023	M4-1023	M4-1023	M4-1023	M4-1023	M4-1023
Date Sampled					10/21/88	10/21/88	01/19/87	04/15/87	08/11/87	10/22/87	01/13/88	01/13/88	04/15/88	07/08/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					10/24/88	10/24/88	01/26/87	04/16/87	08/13/87	10/28/87	01/14/88	01/14/88	04/18/88	07/11/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FTB	FTB								
Lab Analysis														
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE			1.1C	1.1C	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5			10P	6.8C	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			0.64P	0.61C	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1023	M4-1024	M4-1024	M4-1024	M4-1024	M4-1024	M4-1024	M4-1024	M4-1024	M4-1024
Date Sampled			10/05/88	11/04/88	01/19/87	01/19/87	04/15/87	04/15/87	04/15/87	04/15/87	01/12/88	07/08/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/06/88	11/06/88	01/26/87	01/26/87	04/16/87	04/16/87	04/16/87	04/16/87	01/13/88	07/11/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis					LDA	LDB	LDA	LDB	LDB	LDB		
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYSES (MEDICAL 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER									
			Action Level	Primary	M4-1024	M4-1025	M4-1025	M4-1025	M4-1025	M4-1025	M4-1025	M4-1025
Date Sampled					10/05/88							
Sampled By					RADIAN							
Date Analyzed					10/06/88							
Lab					SAC							
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE			0.22	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7			NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5			NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200			NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100			NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
NA = Nonbearing Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1026	M4-1026	M4-1026	M4-1026	M4-1026	M4-1026	M4-1026	M4-1026	M4-1026	M4-1027
Date Sampled			01/14/87	04/17/87	08/05/87	10/14/87	10/14/87	01/15/88	04/18/88	07/13/88	10/10/88	11/25/88
Sampled By			RADIAN	RADIAN	POTIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/20/87	04/21/87	08/07/87	10/19/87	10/19/87	01/18/88	04/20/88	07/15/88	10/14/88	12/02/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDA	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.84
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	DBS Ac. Ion Level	S. EPA Priority MCL	WELL NUMBER									
			M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1028
Date Sampled			01/14/87	01/14/87	04/17/87	08/05/87	10/14/87	01/15/88	04/18/88	07/15/88	10/10/88	08/07/87
Sampled By			RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN
Date Analyzed			01/20/87	01/20/87	04/21/87	08/07/87	10/16/87	01/18/88	04/20/88	07/15/88	10/14/88	08/13/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB				LDA	LDB			
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Dichloroethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.40C(1.32)
1,1,1-Trichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,2-Dichloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,2-Dichloroethane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofluoride	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	(LQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MJ = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RAOJAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES U.S. EPA		WELL NUMBER									
	Action	Primary	M4-1028	M4-1028	M4-1028	M4-1028	M4-1029	M4-1029	M4-1029	M4-1029	M4-1029	M4-1029
	Level	MCL										
Date Sampled			10/14/87	10/14/87	01/15/88	04/18/88	07/13/88	10/10/88	11/11/86	11/11/86	11/11/86	01/08/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/16/87	11/09/87	01/18/88	04/20/88	07/15/88	10/14/88	11/19/86	11/19/86	11/19/86	01/13/87
Lab			SAC	CES	SAC	SAC	SAC	SAC	FDA	FDA	FDA	SAC
Field Analysis									LDA	LDA	LDA	FDB
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	0.17C	0.19C	0.19C	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	6.8C	6.7C	6.7C	5.3C
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	1.6C	1.5C	1.5C	1.6
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	1.1C	1.2C	1.1C	0.85C
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well  
 FDA - First field duplicate analysis  
 FDB - Second field duplicate analysis  
 LDA - First laboratory duplicate analysis  
 LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento  
 CES - Ceramite Environmental Services  
 SAC - Radian Analytical Services, Sacramento

NO - Nothing detected  
 NR - Not reported  
 NA - Not analyzed  
 C - Analysis confirmed in second column analysis  
 LOQ - Limit of quantitation  
 ( ) - Data decision criterion (DDC). Indicates result below DDC.  
 NE - Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Well Number	MA-1029	MA-1029	MA-1029	MA-1029	MA-1029	MA-1030	MA-1030	MA-1030
Date Sampled				04/29/87	08/07/87	10/12/87	10/12/87	10/12/87	10/13/87	10/13/87	10/13/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				05/01/87	08/13/87	10/13/87	10/13/87	10/13/87	10/13/87	10/13/87	10/13/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis											
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	0.44C(1.32)	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7		NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE		6.4C	6.7C	1.6C	2.2C	1.9C	5.0C	NO	NO
Total 1,2-Dichloroethane	16	NE		3.7C	2.8C	2.2C	2.7C	1.7C	4.6C	NO	NO
Chloroform	100	100		NO	NO	0.40C	0.71C	0.46C	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5		3.0C	4.3C	1.4C	1.8C	1.7C	1.9C	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100		NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MA = Monitoring Well  
FSA = First field duplicate analysis  
FDB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1030	M4-1030	M4-1030	M4-1030	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031
Date Sampled			08/07/87	10/12/87	01/17/88	04/14/88	10/04/88	11/18/88	01/08/87	04/29/87	08/10/87	10/12/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/13/87	10/14/87	01/20/88	04/18/88	10/05/88	11/21/88	01/13/87	05/01/87	08/14/87	10/13/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	0.21C	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NO	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FWA = First field duplicate analysis

YFB = Second field duplicate analysis

RADIAN# = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1031	M4-1031	M4-1031	M4-1032	M4-1032	M4-1032	M4-1032	M4-1032	M4-1032	M4-1032
Date Sampled			01/17/88	04/14/88	10/04/88	11/19/86	01/13/87	05/01/87	08/04/87	10/09/87	01/14/88	07/14/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/20/88	04/18/88	10/05/88	11/22/86	01/19/87	05/05/87	08/07/87	10/12/87	01/15/88	07/15/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	0.91C(1.32)	0.48C(1.32)	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METEORIC 8010 ANALYSES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER									
			Action Level	Primary	M4-1032	M4-1033	M4-1033	M4-1033	M4-1033	M4-1033	M4-1033	M4-1033
Date Sampled					10/20/88	11/12/86	01/08/87	04/28/87	08/10/87	10/13/87	01/12/88	04/15/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					10/21/88	11/20/86	01/13/87	04/29/87	08/14/87	10/14/87	01/13/88	04/20/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	0.41	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100			ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LID)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			ND	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LIDQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DBS	U.S. EPA	Action	Primary	ML	Well Number	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034
Date Sampled														
Sampled By														
Date Analyzed														
Lab														
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE												
Bromoethane	NE	NE												
Vinyl chloride	2	1												
Chloroethane	NE	NE												
Methylene chloride	40	NE												
Trichloroethene	3400	NE												
1,1-Dichloroethane	6	7												
1,1-Dichloroethane	20	NE												
Total 1,2-Dichloroethane	16	NE												
Chloroform	100	100												
1,2-Dichloroethane	200	200												
1,1,1-Trichloroethane	1	5												
Carbon tetrachloride	5	5												
Bromochloroethane	100	100												
1,2-Dichloroethane	10	NE												
Trans-1,3-dichloropropene	NE	NE												
Trichloroethene	5	5												
Dibromochloroethane	100	100												
1,1,2-Trichloroethane	100	NE												
cis-1,3-Dichloropropene	87	NE												
2-Chloroethyl vinyl ether	NE	NE												
Benzofuran	100	100												
1,1,2,2-Tetrachloroethane	NE	NE												
Tetrachloroethane	4	NE												
Chlorobenzene	30	NE												
1,3-Dichlorobenzene	130	NE												
1,2-Dichlorobenzene	130	NE												
1,4-Dichlorobenzene	(100)0.5	NE												
1,1,1,2-Tetrachloroethane	NE	NE												

ALL UNITS ARE ug/l

NE = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

DBS = Monitoring Well  
 FVA = First field duplicate analysis  
 FVB = Second field duplicate analysis  
 LDB = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1034	M4-1035	M4-1035	M4-1035	M4-1035	M4-1035	M4-1035	M4-1035	M4-1035	M4-1036
Date Sampled			10/14/86	11/25/86	01/08/87	04/28/87	08/10/87	10/13/87	01/12/88	04/15/88	07/13/88	10/14/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/18/86	12/02/86	01/13/87	04/29/87	08/14/87	10/14/87	01/13/88	04/20/88	07/14/88	10/18/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	0.16	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.37
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.15
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.86
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DOS	U.S. EPA	Action	Primary	ML	WELL NUMBER	M4-1036	M4-1036	M4-1036	M4-1036	M4-1036	M4-1036	M4-1036
Date Sampled													
Sampled By													
Date Analyzed													
Lab													
Field Analysis													
Lab Analysis													
Chloroethene	NE	NE											
Bromoethene	NE	NE											
Vinyl chloride	2	1											
Chloroethane	NE	NE											
Methylene chloride	40	NE											
Trichloroethene	3400	NE											
1,1-Dichloroethene	6	7											
1,1-Dichloroethane	20	NE											
Total 1,2-Dichloroethene	16	NE											
Chloroform	100	100											
1,2-Dichloroethane	1	5											
1,1,1-Trichloroethane	200	200											
Carbon tetrachloride	5	5											
Bromochloroethane	100	100											
1,2-Dichloroethene	10	NE											
Trans-1,3-dichloropropene	NE	NE											
Trichloroethene	5	5											
Dibromochloroethane	100	100											
1,1,2-Trichloroethane	100	NE											
cis-1,3-Dichloropropene	87	NE											
2-Chloroethyl vinyl ether	NE	NE											
Benzene	100	100											
1,1,2,2-Tetrachloroethane	NE	NE											
Tetrachloroethane	4	NE											
Chlorobenzene	30	NE											
1,3-Dichlorobenzene	130	NE											
1,2-Dichlorobenzene	130	NE											
1,4-Dichlorobenzene	(LOD)0.5	NE											
1,1,1,2-Tetrachloroethane	NE	NE											

ALL UNITS ARE ug/l

M4 - Monitoring Well  
 FTA - First field duplicate analysis  
 FDB - Second field duplicate analysis  
 LDA - First laboratory duplicate analysis  
 LDB - Second laboratory duplicate analysis

RADIUM = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DES	U.S. EPA	Primary	M4-1036	M4-1037	M4-1037	M4-1037	M4-1037	M4-1037	M4-1037	M4-1037	M4-1038
	Action	Level	ML									
Date Sampled				10/14/86	01/15/87	05/07/87	08/12/87	10/13/87	01/15/88	04/18/88	07/14/88	10/06/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/18/86	01/21/87	05/11/87	08/18/87	10/14/87	01/18/88	04/21/88	07/18/88	10/07/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				YES								
Lab Analysis												
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

YES = Second Field duplicate analysis

LDA = First Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

P or FC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (SHEED 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1039
Date Sampled			11/20/86	01/15/87	04/30/87	08/04/87	10/13/87	01/15/88	04/18/88	07/14/88	10/06/88	11/20/86
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			11/24/86	01/22/87	05/04/87	08/07/87	10/16/87	01/18/88	04/21/88	07/18/88	10/07/88	11/24/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LIB						LIB			
Chloromethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromomethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	1.0	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 NA = Nothing detected  
 NE = Not analyzed  
 LD = Limit of quantitation  
 NE = Not established

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

LIB = First laboratory duplicate analysis  
 LIB = Second laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	M4-1039	M4-1039	M4-1039	M4-1039	M4-1039	M4-1039	M4-1040	M4-1040
	Action	Level	ML								
Date Sampled				01/15/87	01/15/87	04/30/87	08/03/87	10/13/87	01/27/88	04/18/88	07/14/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				01/21/87	01/13/87	05/04/87	08/06/87	10/16/87	01/29/88	04/21/88	07/18/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis											
Lab Analysis				LDA	LDB						
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7		NO	NO	NO	NO	NO	0.75C	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE		NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5		NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100		NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NE = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

NE = Not established

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

U.S. EPA = U.S. Environmental Protection Agency

Method 8010 = EPA Method 8010 for the determination of volatile organic compounds in water

Method 601 = EPA Method 601 for the determination of volatile organic compounds in air

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-1040	M4-1040	M4-1040	M4-1040	M4-1040	M4-1040	M4-1041	M4-1041	M4-1041	M4-1041
Date Sampled			05/05/87	01/27/87	10/20/87	01/20/88	04/25/88	07/20/88	10/17/88	11/14/86	11/14/86	01/22/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/05/87	01/28/87	10/23/87	01/23/88	04/27/88	07/22/88	10/18/88	11/20/86	11/20/86	01/28/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NE	NO	NO	NO	NO	NO	NO	16C	NO	NO
Trichloroethane	5	5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FOA = First field duplicate analysis

FOB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1042	M4-1042
Date Sampled			05/06/87	10/14/87	10/14/87	10/14/87	10/14/87	01/18/88	04/19/88	07/15/88	10/19/88	11/21/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/11/87	08/10/87	11/09/87	10/18/87	10/18/87	01/19/88	04/22/88	07/18/88	10/20/88	11/25/86
Lab			SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis						LDA	LDB					
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-dichloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.41
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichloroethane	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MJ = Monitoring Well  
LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
CES = Ceres Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantization  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

## MASTER LOG OF WELLS SUPPLIED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1042	M4-1042	M4-1042	M4-1042	M4-1042	M4-1042	M4-1043	M4-1043	M4-1043	M4-1043
Date Sampled			05/06/87	10/14/87	01/18/88	04/19/88	07/15/88	10/19/88	11/21/86	01/22/87	05/06/87	05/06/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/11/87	10/18/87	01/19/88	04/21/88	07/18/88	10/20/88	11/25/86	01/28/87	05/11/87	05/11/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Propyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M4 - Monitoring Well  
 LDN - First Laboratory duplicate analysis  
 LDN - Second Laboratory duplicate analysis  
 RADIAN - Radian Corporation, Sacramento  
 SAC - Radian Analytical Services, Sacramento  
 NO - Nothing detected  
 NA - Not analyzed  
 LOQ - Limit of quantitation  
 NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYLED BOD ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DBS Action Level	U.S. EPA Primary MCL	MA-1043 08/06/87	MA-1043 10/14/87	MA-1043 01/18/88	MA-1043 01/19/88	MA-1043 04/19/88	MA-1043 04/22/88	MA-1043 07/15/88	MA-1043 10/19/88	MA-1043 04/16/86	MA-1043 04/17/86	MA-1043 04/21/86
Date Sampled			08/06/87	10/14/87	01/18/88	01/19/88	04/19/88	04/22/88	07/15/88	10/19/88	04/16/86	04/17/86	04/21/86
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			08/10/87	10/19/87	01/19/88	01/19/88	04/19/88	04/22/88	07/18/88	10/20/88	04/22/86	04/17/86	04/17/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					LDA	LDB	FDN	FTB					LDA
Lab Analysis													
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethene	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

ALL UNITS ARE ug/l  
 MW = Monitoring Well  
 FNA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CW = Off base residential well

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	MO.	04-21	04-33	04-33	04-34	04-35	04-36	04-39	04-39	04-39	04-39
Date Sampled					04/14/86	11/29/79	08/17/83	08/17/83	08/17/83	08/17/83	06/28/83	01/20/84	03/08/84	11/05/85
Sampled By					RADIANT		SCHD	SCHD	SCHD	SCHD	SCHD	SCHD	SCHD	RADIANT
Date Analyzed					04/17/86		08/23/83	08/23/83	08/23/83	08/23/83	08/23/83	01/31/84	03/16/84	11/17/85
Lab					SAC	ANLAB	RAS	RAS	RAS	RAS	RAS	RAS	RAS	BAC
Field Analysis														SAC
Lab Analysis														
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethene	10	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS /G/G/L

NE = Second laboratory duplicate analysis

LOQ = Off base residential well

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

RADIANT = Radian Corporation, Sacramento

SCHD = Sacramento County Health Department

BAC = Rosen & Caldwell

RAS = Radian Analytical Services

ANLAB = Anlab Analytical Lab

SAC = Radian Analytical Services, Sacramento



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	CM-41	CM-41	CM-42	CM-42	CM-42	CM-42	CM-42	CM-42	CM-42	CM-42	CM-42
Date Sampled			06/28/83	03/08/84	08/17/83	03/15/84	06/18/84	08/06/84	11/14/84	03/19/85	07/03/85	09/26/85	11/05/85
Sampled by					SCH	SCH					RADIAN	USAF	RADIAN
Date Analyzed			03/16/84	03/16/84	08/23/83	03/19/84	06/21/84	08/08/84	11/19/84	03/22/85	07/08/85	10/17/85	11/17/85
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	ANLAB	BAC
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS #/lb/l

CM = GEE base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 ND = nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			OH-42	OH-42	OH-42	OH-42	OH-43	OH-43	OH-43	OH-43	OH-43	OH-43
Date Sampled			01/17/86	04/09/86	07/15/86	10/16/86	06/28/83	06/18/84	08/06/84	11/14/84	03/19/85	07/03/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN						USAF
Date Analyzed			01/29/86	04/13/86	07/24/86	10/20/86		06/21/84	08/08/84	11/19/84	03/22/85	07/08/85
Lab			SAC	SAC	SAC	SAC		RAS	RAS	RAS	RAS	RAS
Field Analysis												
Lab Analysis												ANLAB
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

 ALL UNITS ARE ug/l  
 OH = Off base residential well

 RADIAN = Radian Corporation, Sacramento  
 USAF = United States Air Force  
 RAS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	WELL NUMBER									
					Q1-43	Q1-43	Q1-43	Q1-43	Q1-43	Q1-43	Q1-43	Q1-44	Q1-44	Q1-44
			Level	MCL										
Data Sampled					11/08/85	11/08/85	03/16/86	04/14/86	04/14/86	07/15/86	08/17/83	03/08/84	06/18/84	11/14/84
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	SCHD	SCHD	RAS	RAS
Data Analyzed					11/20/85	11/20/85	01/28/86	04/16/86	04/16/86	07/24/86	08/23/83	03/16/84	06/21/84	11/21/84
Lab					BAC	BAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS
Field Analysis														
Lab Analysis					LDA	LDB	LDA	LDB	LDB					
Chloroethane	NE	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	5	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

CH = Off base residential well

RADIANT = Radiant Corporation, Sacramento

SCHD = Sacramento County Health Department

BAC = Brown & Caldwell

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Level	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-44	CM-45
Date Sampled			03/19/85	07/05/85	10/22/85	11/03/85	11/15/85	01/16/86	01/16/86	04/09/86	07/15/86	10/16/86	06/28/83			
Sampled By			RMS	RMS	USAF	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT				
Date Analyzed			03/22/85	07/09/85		11/17/85	11/25/85	01/28/86	01/28/86	04/13/86	07/24/86	10/20/86				
Lab			RMS	RMS	ANLAB	BGC	BGC	SAC	SAC	SAC	SAC	SAC				
Field Analysis						FTB	FTB	LDA	LDA							
Lab Analysis																
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS: #/cc/l

RADIANT = Radian Corporation, Sacramento  
 USAF = United States Air Force  
 BGC = Brown & Caldwell  
 RMS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED PER METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER										Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45
				Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45							
Date Sampled				03/08/84	06/18/84	08/06/84	11/14/84	03/19/85	07/05/85	09/26/85	11/05/85	11/05/85	11/05/85	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45	Q1-45
Sampled By				SCHD					RADIAN	USAF	RADIAN	RADIAN	RADIAN							
Date Analyzed				03/16/84	06/21/84	08/08/84	11/21/84	03/22/85	07/09/85	10/17/85	11/17/85	11/17/85	11/25/85							
Lab				RAS	RAS	RAS	RAS	RAS	RAS	ANLAB	BAC	BAC	BAC							
Field Analysis																				
Lab Analysis																				
Chloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

IDA = First Laboratory duplicate analysis  
 IDB = Second Laboratory duplicate analysis  
 GU = Off base residential well

RADIAN = Radon Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RAS = Radon Analytical Services  
 ANLAB = AnLab Analytical Lab

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	CM-45	CM-45	CM-45	CM-45	CM-46	CM-46	CM-46	CM-46	CM-46
Date Sampled			01/16/86	04/09/86	07/15/86	10/16/86	06/28/83	03/08/84	06/18/84	11/14/84	03/19/85
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT		SCHO			RADIANT
Date Analyzed			01/28/86	04/13/86	07/26/86	10/20/86		03/16/84	06/21/84	11/19/84	07/09/85
Lab			SAC	SAC	SAC	SAC		RAS	RAS	RAS	RAS
Field Analysis											
Lab Analysis											
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SCHO = Sacramento County Health Department  
 BGC = Bowen & Caldwell  
 RAS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1989)

Parameter	DES	U.S. EPA	Q1-46	Q1-46	Q1-46	Q1-47	Q1-47	Q1-47	Q1-47	Q1-47	Q1-47	Q1-47
	Action	Primary	Q1-46	Q1-46	Q1-46	Q1-47	Q1-47	Q1-47	Q1-47	Q1-47	Q1-47	Q1-47
	Level	ML										
Date Sampled			04/09/86	07/15/86	10/16/86	08/11/83	03/08/84	06/18/84	11/14/84	03/19/85	07/05/85	11/05/85
Sampled by			RADIUM	RADIUM	RADIUM	SOED	SOED	RAS	RAS	RAS	RADIUM	RADIUM
Date Analyzed			04/13/86	07/26/86	10/20/86	08/17/83	03/16/84	06/21/84	11/19/84	03/22/85	07/09/85	11/17/85
Lab			SAC	SAC	SAC	RAS	RAS	RAS	RAS	RAS	RAS	BAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CH = OFF base residential well

RADIUM = Radium Corporation, Sacramento  
 SOED = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 RAS = Radium Analytical Services  
 SAC = Radium Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

[illegible]

**ALL UNITED STATES**

Then the jump was 370 - 610

GRADIAN = Radian Component Ion, Sacramento

**SCHD** = Sacramento County Health Department

CAL = California Analytical Labs

**RAS = Radium Analytical Services**

**ANLAB = Anlab Analytical Lab**

SAC = Radlun Analytical Services, Sacramento

ND - Nothing detected

NA = Not analyzed

100 = Limit of quantitation

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR MIXED 8010 ANALYTES (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	EIS		U.S. EPA		WELL NUMBER									
	Action	Priority	Level	MCL	01-46	01-48	01-48	01-48	01-48	01-48	01-48	01-48	01-48	01-48
Date Sampled					07/05/85	07/05/85	11/05/85	01/17/86	04/09/86	07/15/86	10/16/86	08/19/83	08/19/83	08/19/83
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SEED	SEED	SEED
Date Analyzed					07/09/85	07/09/85	11/17/85	01/29/86	04/13/86	07/24/86	10/20/86	08/23/83	08/23/83	08/24/83
Lab					RAS	RAS	RSC	SAC	SAC	SAC	SAC	RAS	RAS	RAS
Field Analysis					RTA	RTB								
Lab Analysis														
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	6	7	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	5	5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

RTA = First field duplicate analysis  
 RTB = Second field duplicate analysis  
 CW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SEED = Sacramento County Health Department  
 RSC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYLED BOD ANALYTES PERIOD 601 PRIOR TO OCTOBER 1989

Parameter	U.S. EPA		WELL NUMBER											
	DHS Action Level	Primary MCL	CH-75	CH-77	CH-86	CH-86	CH-86	CH-86	CH-91	CH-102	CH-104	CH-104	CH-118	CH-120
Date Sampled			02/27/84	11/02/83	12/05/83	04/09/85	04/10/86	11/29/79	07/16/86	10/25/83	04/09/85	10/25/83	10/25/83	11/01/83
Sampled By			DHS	SECD	SECD	RADIAN	RADIAN		RADIAN	SECD	SECD	SECD	SECD	SECD
Date Analyzed			03/07/84	11/14/83	12/12/83	04/10/85	04/14/86		07/25/86	11/02/83	04/10/85	11/02/83	11/02/83	11/14/83
Lab			RMS	RMS	RMS	RMS	SAC	ANLAB	SAC	RMS	RMS	RMS	RMS	RMS
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichlorofluoroethane	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Dichloroethane	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Dichloroethane	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Dichloroethane	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,1-Trichloroethane	5	5	NE	NE	NE	NE	NE	NE	NE	0.2	NE	NE	NE	NE
Carbon tetrachloride	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Dichloropropane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	0.1	NE	NE	NE	NE
1,1,1,2-Trichloroethane	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethyl vinyl ether	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoforn	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	30	NE	NE	NE	1.0	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,1,2-Pentachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

CH = Off base residential well

CHS = California Department of Health Services  
 CHS = Radian Corporation, Sacramento  
 CHS = Sacramento County Health Department  
 CHS = Radian Analytical Services  
 CHS = AnLab Analytical Lab  
 CHS = Radian Analytical Services, Sacramento

NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				Q4-127	Q4-134	Q4-135	Q4-135	Q4-135	Q4-135	Q4-135	Q4-135	Q4-135	Q4-135
Date Sampled				11/02/83	10/17/83	07/03/85	10/17/83	07/03/85	10/31/85	01/21/86	04/10/86	07/07/86	10/17/86
Sampled By				SCHD	DES	RADIAN	DES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				11/14/83	10/31/83	07/09/85	10/26/83	07/03/85	11/12/85	02/03/86	04/14/86	07/10/86	10/21/86
Lab				RMS	RMS	RMS	RMS	RMS	B&C	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Propyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	2.3	NO	2.8	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	0.2	0.1	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	0.1	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5		NO	NO	NO	NO	1.4	0.6	0.7	0.4	0.67	0.58C
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,2-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

DES = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CH = Off base residential well

DES = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 B&C = Brown & Caldwell  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER									
			Action	Primary	CM-136	CM-136	CM-136	CM-136	CM-136	CM-136	CM-136	CM-136
			Level	ML								
Date Sampled												
Sampled by												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Acetylene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethylene	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethene	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloropropane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS /MG UG/L

CM = Off line residential well

DES = California Department of Health Services

RADIAN = Radian Corporation, Sacramento

BAC = Bensen & Caldwell

RAS = Radian Analytical Services

NE = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	Date Sampled Sampled by	Date Analyzed	Lab	Field Analysis Lab Analysis	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
							04-136	04-136	04-136	04-136	04-136	04-137	04-137	04-137	04-137	04-137
	01/21/86	01/21/86	01/21/86	01/21/86	01/21/86	01/21/86	04-136	04-136	04-136	04-136	04-136	04-137	04-137	04-137	04-137	04-137
	02/03/86	02/03/86	02/03/86	02/03/86	02/03/86	02/03/86	04-136	04-136	04-136	04-136	04-136	04-137	04-137	04-137	04-137	04-137
	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	RMS	RMS	RMS	RMS	SAC
	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	FTB	FTB	FTB	FTB	FTB
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethylene	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethene	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethane	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1,2-Dichloroethane	1	5	0.4	0.1	0.1	0.1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloropropane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethane	5	5	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Dibromochloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LD)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

NE = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LDQ = Limit of quantitation

NE = Not established

IHS = California Department of Health Services

RADIAN = Radian Corporation, Sacramento

BGC = Brown & Caldwell

RMS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

FTB = First field duplicate analysis

LDQ = Second field duplicate analysis

LDQ = First laboratory duplicate analysis

LDQ = Second laboratory duplicate analysis

LDQ = Off base residential well

MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-137	04-137	04-137	04-139	04-139	04-139	04-139	04-139	04-139	04-139
Date Sampled			04/10/86	07/07/86	10/17/86	03/28/85	07/01/85	10/30/85	01/21/86	04/10/86	07/07/86	10/17/86
Sampled By			RADIAN	RADIAN	RADIAN	DHS	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/14/86	07/10/86	10/21/86	10/27/83	07/05/85	11/11/85	02/03/86	04/14/86	07/10/86	10/21/86
Lab			SAC	SAC	SAC	RAS	RAS	BAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	2.7	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	0.1	0.1	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	0.1	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	0.7	0.61	0.46C	1.3	2.0	0.7	0.5	0.3	0.81	0.39C
Dibromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS /NE ug/l

CM = Off base residential well

DHS = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				04-140	04-140	04-140	04-140	04-140	04-140	04-140	04-140	04-141	04-141
Date Sampled				10/17/83	03/12/84	07/01/85	10/30/85	10/30/85	01/21/86	04/10/86	07/07/86	10/17/86	10/17/83
Sampled By	DES			DES	DES	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	DES
Date Analyzed				10/28/83	03/17/84	07/03/85	11/11/85	11/13/85	02/03/86	04/14/86	07/10/86	10/21/86	10/31/83
Lab	RMS			RMS	RMS	RMS	BAC	BAC	SAC	SAC	SAC	SAC	RMS
Field Analysis							LDA	LDB					
Lab Analysis													
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE		NO	NO	NO	0.5	NO	0.2	0.2	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	0.2	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5		NO	NO	2.2	0.8	0.4	1.1	0.9	0.83	0.84C	0.8
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LD)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
CM = Off base residential well

DES = California Department of Health Services  
RADIANT = Radiant Corporation, Sacramento  
BAC = Brown & Caldwell  
RMS = Radiant Analytical Services  
SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IFS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			CM-141	CM-141	CM-141	CM-141	CM-141	CM-141	CM-142	CM-142	CM-142	CM-142
Date Sampled			07/01/85	10/30/85	01/21/86	04/04/86	07/07/86	10/17/86	01/19/87	08/31/83	03/28/85	07/01/85
Sampled By			RAS	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	DFS	RAS	RADIAN
Date Analyzed			07/05/85	11/11/85	02/03/86	04/09/86	07/10/86	10/21/86	01/21/87	09/12/83	04/01/85	07/03/85
Lab			RAS	RAC	SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	0.6	NO	1.7
Trichloroethylene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.7
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	0.1	1.2	0.7
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	1.8
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
CM = Off base residential well

DFS = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
RAC = Brown & Caldwell  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			QW-142	QW-142	QW-142	QW-142	QW-142	QW-144	QW-144	QW-144	QW-144	QW-144
Date Sampled			04/18/86	07/10/86	10/30/86	10/30/86	11/18/83	07/07/85	10/30/85	01/22/86	04/10/86	07/08/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	DHS	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/23/86	07/14/86	11/03/86	11/03/86	12/01/83	07/10/85	11/12/85	02/03/86	04/14/86	07/11/86
Lab			SAC	SAC	SAC	SAC	RAS	RAS	BAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	4.0	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	2.66	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	3.87	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	0.8	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,2-Dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	0.37C	0.37C	0.2	1.1	NO	0.2	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,2-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FIA = First field duplicate analysis  
 FIB = Second field duplicate analysis  
 CM = QCE base residential well

DHS = California Department of Health Services  
 RADIAN = Radon Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radon Analytical Services  
 SAC = Radon Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYL 8010 ANALYTES (BEHIND 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-144	04-145	04-145	04-145	04-145	04-145	04-146	04-146	04-146	04-146
Date Sampled			10/29/86	07/07/85	10/30/85	01/21/86	04/18/86	07/10/86	10/29/86	07/10/86	03/28/85	07/02/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/31/86	07/10/85	11/12/85	02/03/86	04/23/86	07/14/86	10/31/86	07/12/86	04/04/85	07/08/85
Lab			SAC	RAS	BAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	2.48	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	2.3	3.1	5.3	4.4C	1.1	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	0.2	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	7	5	NO	1.02	0.5	NO	NO	NO	NO	NO	0.8	1.0
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LTD) 0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 BAC = Bason & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	DHS Action Level	Primary MCL	Q1-146	Q1-146	Q1-146	Q1-146	Q1-147	Q1-147	Q1-147	Q1-147	Q1-147	Q1-147
Date Sampled			01/20/86	04/11/86	07/08/86	10/14/86	08/31/83	12/22/83	01/12/84	03/09/84	06/25/84	08/15/84
Sampled By			NOELAN	RADIAN	RADIAN	RADIAN	DHS	DHS	DHS	SEED	RAS	11/14/84
Date Analyzed			01/30/86	04/15/86	07/11/86	10/15/86	09/12/83	12/31/83	01/18/84	03/19/84	07/05/84	08/28/84
Lab			SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS	RAS	11/21/84
Field Analysis												RAS
Lab Analysis												RAS
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	17.3	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	0.3	96.2	ND	0.5	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	1.74	ND	1.2	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CH = Off base residential well

DHS = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 SEED = Sacramento County Health Department  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES	U.S. EPA	WELL NUMBER									
			Action	Primary	CM-147	CM-147	CM-147	CM-147	CM-147	CM-148	CM-148	CM-148
	Level	MCL										
Date Sampled												
Sampled by												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Chloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO		NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40		NE		4.0	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400		NE		NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO		NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20		NE		NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16		NE		NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100		NO		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO		0.8	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200		NO		NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5		NO		NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100		NO		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10		NE		NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	5		NE		NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	100		NO		NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100		NO		NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100		NE		NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87		NE		NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100		NO		NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4		NE		NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30		NE		NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130		NE		NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130		NE		NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5		NE		NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
CM - Off base residential well

DHS = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 BAC = Rosen & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METAL ANALYTES (BEHIND 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Active	Primary	ML	WELL NUMBER										QA-149	QA-149	QA-149	QA-149	QA-149	QA-149
						QA-148	QA-148	QA-148	QA-148	QA-148	QA-148	QA-148	QA-148	QA-148	QA-148						
Date Sampled						12/05/85	12/30/85	01/21/86	04/11/86	07/08/86	10/14/86	08/31/83	11/14/84	07/01/85	10/30/85						
Sampled by						USAF	USAF	RADIAN	RADIAN	RADIAN	RADIAN	DES	RADIAN	RADIAN	RADIAN						
Date Analyzed								02/04/86	04/15/86	07/11/86	10/15/86	09/12/83	11/21/84	07/03/85	11/12/85						
Lab						ANLAB	ANLAB	SAC	SAC	SAC	SAC	RMS	RMS	RMS	BGC						
Field Analysis																					
Lab Analysis																					
Chloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE				ND	ND	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE				ND	ND	1.1	0.4	ND	0.80C	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE				ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

DES = First Laboratory duplicate analysis  
 LDA = Second Laboratory duplicate analysis  
 C = Off base residential well

DES = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 USAF = United States Air Force  
 BGC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METEED 8010 ANALYTES (METEED 601 PRIOR TO OCTOBER 1988)

Parameter	USE		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	04-150	04-151	04-151	04-151	04-151	04-151	04-151	04-151	04-151	04-152
Date Sampled					07/08/86	10/14/86	08/31/83	08/15/84	07/02/85	11/13/85	01/21/86	04/11/86	07/08/86	08/31/83
Sampled By					MDJAM	RADIAN	DES	RMS	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	DES
Date Analyzed					07/11/86	10/15/86	09/12/83	08/28/84	07/05/85	11/24/85	02/04/86	04/15/86	07/11/86	09/12/83
Lab					SAC	SAC	RMS	RMS	RMS	BAC	SAC	SAC	SAC	RMS
Field Analysis														
Lab Analysis														
Chloroethene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE		NO	NO	1.0	NO	1.92	NO	NO	NO	NO	0.3
Trichloroethene	3400	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	16	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	300	100	NE		NO	NO	0.2	NO	NO	NO	0.1	NO	NO	NO
Chloroform	1	5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	200	200	NE		NO	NO	1.3	NO	NO	NO	NO	NO	NO	0.4
1,1,1-Trichloroethane	5	5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	0.3
Carbon tetrachloride	100	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	10	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	5	5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	100	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	87	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	100	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
GM = Off base residential well

DES = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
BAC = Breen & Caldwell  
RMS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-152	04-152	04-152	04-152	04-152	04-152	04-152	04-152	04-152	04-152
Date Sampled			12/22/83	03/12/84	06/25/84	08/15/84	11/14/84	03/28/85	07/01/85	10/30/85	01/21/86	04/11/86
Sampled By			DHS	DHS				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/03/84	03/17/84	07/05/84	08/28/84	11/20/84	04/03/85	07/03/85	11/12/85	02/04/86	04/15/86
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE	NO	NO	NO	NO	NO	NO	2.0	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,2-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorovinyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	0.7	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = OFF base residential well

DHS = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
RAC = Brown & Caldwell  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-112	04-154	04-154	04-154	04-154	04-154	04-154	04-154	04-155	04-155
Date Sampled			10/17/86	08/31/83	11/14/84	07/01/85	10/30/85	01/21/86	04/15/86	07/10/86	10/17/86	08/15/84
Sampled By			RADIAN	DES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	DES
Date Analyzed			10/21/86	09/12/83	11/20/84	07/03/85	11/12/85	02/04/86	04/17/86	07/14/86	10/21/86	08/28/84
Lab			SAC	RMS	RMS	RMS	BAC	SAC	SAC	SAC	SAC	RMS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	0.4	ND	5.7	ND	ND	ND	ND	ND	0.5
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND
Chloroform	100	100	ND	0.2	ND	ND	ND	0.1	ND	ND	ND	0.1
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	0.1	ND	ND	ND	0.2
1,1,1-Trichloroethane	200	200	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	1.8	0.3	ND	ND	ND	ND	0.6
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

GM = Off base residential well

DES = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Primary	Level	ML	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155	04-155
Date Sampled					03/28/85	07/02/85	10/30/85	01/22/86	02/07/86	02/07/86	02/07/86	02/10/86	02/10/86	04/14/86	07/10/86	07/10/86	07/10/86	07/10/86	10/17/86	
Sampled By					RAS	RAS	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed					04/01/85	07/08/85	11/13/85	01/28/86	02/10/86	02/10/86	02/10/86	02/10/86	02/10/86	04/16/86	07/14/86	07/14/86	07/14/86	07/14/86	10/21/86	
Lab					RAS	RAS	BAC	QAL	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis																				
Lab Analysis																				
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl chloride	2	1	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	40	NE	2.3		1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	6	7	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1-Dichloroethane	20	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total 1,2-Dichloroethane	16	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	1	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	200	200	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	5	5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromochloroethane	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	10	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trans-1,3-dichloropropene	NE	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethane	5	5	2.5		1.9	ND	2.1	0.6	1.1	1.1	1.1	1.1	1.1	0.9	0.95	0.95	0.95	0.95	0.81C	
Dibromochloroethane	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	100	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	87	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	NE	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzofuran	100	100	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	NE	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethane	4	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	30	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,3-Dichlorobenzene	130	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzene	130	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	NE	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
 LTB = Second laboratory duplicate analysis  
 ON = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 QAL = California Water Lab  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second color analysis  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	MDL Number													
			Q4-155	Q4-157	Q4-157	Q4-157	Q4-157	Q4-157	Q4-157	Q4-157	Q4-157	Q4-157	Q4-158	Q4-158	Q4-158	
Date Sampled			10/17/86	08/24/83	07/07/85	10/30/85	02/07/86	03/31/86	07/10/86	10/17/86	08/31/83	08/15/84	03/28/85			
Sampled By			RADIAN	DHS	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	DHS					
Date Analyzed			10/21/86	08/25/83	07/10/85	11/11/85	02/10/86	04/05/86	07/14/86	10/21/86	09/12/83	08/28/84	04/01/85			
Lab			SAC	RAS	RAS	BAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS			
Field Analysis																
Lab Analysis			LTB													
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	2.72	ND	0.8(2.2)	ND	ND	ND	0.3	ND	2.0	ND	ND	ND
Trichlorofluoromethane	3400	NE	0.32C	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND
Chloroform	100	100	0.13C	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,1-Tetrachloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropene	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	0.74C	ND	ND	ND	ND	ND	ND	ND	ND	0.4	1.8	ND	ND	ND
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodifluoromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Pentachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,1,2-Pentachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 LTB = Second Laboratory duplicate analysis  
 CW = Off base residential well

DHS = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-158	04-158	04-158	04-158	04-158	04-158	04-162	04-162	04-162	04-162
Date Sampled			07/03/85	10/30/85	02/07/86	03/31/86	07/10/86	10/17/86	11/09/79	06/28/83	07/12/85	10/20/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/08/85	11/12/85	02/10/86	04/05/86	07/14/86	10/21/86			07/12/86	10/21/86
Lab			RAS	BAC	SAC	SAC	SAC	SAC	ANLAB		RAS	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	0.1	0.2	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	1.9	ND	0.2	0.2	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyethyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CH = GEE base residential well

RADIAN = Radian Corporation, Sacramento

BAC = Rosen & Caldwell

RAS = Radian Analytical Services

ANLAB = AnLab Analytical Lab

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYLED BOD ANALYTES (METHOD 601) PRIOR TO OCTOBER 1989

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			Q4-183	Q4-183	Q4-183	Q4-183	Q4-183	Q4-183	Q4-183	Q4-183	Q4-183	Q4-184	Q4-184	
Date Sampled			10/27/83	08/16/84	04/02/85	07/07/85	11/15/85	01/16/86	04/18/86	07/07/86	01/30/87	08/24/83	12/28/83	
Sampled By			DES			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		DES	
Date Analyzed			11/09/83	08/29/84	04/03/85	07/10/85	11/25/85	01/28/86	04/23/86	07/10/86	02/02/87	08/25/83	01/07/84	
Lab			RAS	RAS	RAS	RAS	RAC	SAC	SAC	SAC	SAC	RAS	RAS	
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Methylene chloride	40	NE	NO	NO	NO	2.7	NO	NO	NO	NO	NO	NO	NO	
Trichlorofluoroethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	0.1	NO	NO	NO	NO	
Chloroform	100	100	NO	NO	2.1	NO	NO	0.4	NO	0.20	NO	NO	NO	
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Trichloroethane	5	5	0.1	0.3	1.4	2.23	0.7	1.2	0.9	1.0	0.85	NO	NO	
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1,1,2,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

ALL UNITS ARE ug/l  
QW - Off base residential well

DOS = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NE = Nothing detected  
NA = Not analyzed  
LDQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-184	04-184	04-184	04-184	04-184	04-217	04-217	04-217	04-217	04-217
Date Sampled			11/13/85	01/16/86	04/16/86	07/07/86	10/13/86	01/20/87	04/27/83	06/24/83	12/29/83	03/16/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCD	RACS	SCD	RACS
Date Analyzed			11/24/85	01/28/86	04/22/86	07/10/86	10/14/86	01/23/87	01/09/84	03/30/84	01/09/84	07/03/84
Lab			BAC	SAC	SAC	SAC	SAC	SAC	RAS	CAL	RAS	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS #/lb up/l  
CM = QCT base residential well

RADIAN = Radian Corporation, Sacramento  
RACS = Regional Water Quality Control Board  
SCD = Sacramento County Health Department  
BAC = Brown & Caldwell  
CAL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	08/13/84	08/18/84	11/28/84	04/21/85	04/10/85	11/13/85	12/05/85	04/21/85	12/13/85	04/21/85	12/30/85	01/23/86	01/24/86	01/26/86	04/21/86	04/21/86
Date Sampled			08/13/84	08/18/84	11/28/84	04/21/85	04/10/85	11/13/85	12/05/85	04/21/85	12/13/85	04/21/85	12/30/85	01/23/86	01/24/86	01/26/86	04/21/86	04/21/86
Sampled By			RAS	RAS	RAS	RAS	RAS	BAC	USAF	USAF	USAF	ANLAB	ANLAB	ANLAB	ANLAB	ANLAB	ANLAB	ANLAB
Date Analyzed			08/13/84	08/18/84	11/28/84	04/21/85	04/10/85	11/13/85	12/05/85	04/21/85	12/13/85	04/21/85	12/30/85	01/23/86	01/24/86	01/26/86	04/21/86	04/21/86
Lab			RAS	RAS	RAS	RAS	RAS	BAC	USAF	USAF	USAF	ANLAB	ANLAB	ANLAB	ANLAB	ANLAB	ANLAB	ANLAB
Field Analysis																		
Lab Analysis																		
Chloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethenes	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	3.0	3.2	ND	ND	ND	5.9	4.6	ND	4.0	ND	4.7	8.8	5.7	ND	ND	ND
Dibromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
CW = Off base residential well

DHS = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
USAF = United States Air Force  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
OAL = California Water Lab  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-235	04-235	04-235	04-235	04-235	04-235	04-237	04-237	04-237	04-237
Date Sampled			12/28/83	11/13/85	01/16/86	04/04/86	04/04/86	07/11/86	10/28/86	02/27/84	11/15/85	01/20/86
Sampled By			DHS	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	DHS	RADIANT	RADIANT
Date Analyzed			01/06/84	11/24/85	01/28/86	04/09/86	04/09/86	07/15/86	10/29/86	03/07/84	11/25/85	01/30/86
Lab			RAS	BAC	SAC	SAC	SAC	SAC	SAC	RAS	BAC	SAC
Field Analysis												
Lab Analysis						LDA	LDB					LDA
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	0.2	0.1	0.1	0.10	0.16C	NO	NO	NO
Chloroform	100	100	NO	NO	0.4	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	0.2	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

PNA = First field duplicate analysis  
 PNB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CM = Off base residential well

DHS = California Department of Health Services  
 RADIANT = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	DATE	Q4-237	Q4-237	Q4-238	Q4-238	Q4-238	Q4-238	Q4-240	Q4-240
Date Sampled			01/20/86	04/04/86	07/16/86	02/27/86	11/13/85	01/16/86	07/11/86	10/17/83	07/10/84
Sampled by			INDIAN	INDIAN	INDIAN	DES	INDIAN	INDIAN	INDIAN	DES	
Date Analyzed			01/30/86	04/09/86	07/25/86	03/07/86	11/24/85	01/28/86	04/09/86	10/17/86	07/12/84
Lab			SAC	SAC	SAC	RAS	BAC	SAC	SAC	RAS	RAS
Field Analysis											
Lab Analysis			LIB								
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	100	100	NO	NO	NO	NO	NO	0.1	NO	NO	NO
Chloroform	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	5	5	NO	NO	NO	NO	NO	0.5	NO	NO	NO
Trichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloromethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Hexachlorocyclopentadiene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

LIB = Second Laboratory duplicate analysis

ON = Off base residential well

DHS = California Department of Health Services

INDIAN = Indian Corporation, Sacramento

BAC = Brown & Caldwell

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	Primary	WELL NUMBER									
					Q1-240	Q1-240	Q1-240	Q1-240	Q1-240	Q1-256	Q1-257	Q1-260	Q1-260	Q1-260
Date Sampled					11/13/85	02/07/86	04/04/86	07/11/86	10/23/86	04/14/86	04/14/86	08/12/83	03/19/84	08/10/84
Sampled by					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCED	SCED	RAS
Date Analyzed					11/24/85	02/10/86	04/09/86	07/15/86	10/27/86	04/17/86	04/17/86	09/09/83	04/02/84	08/17/84
Lab					BAC	SAC	SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	0.5	NO	NO
Trichloroethene	3400	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	16	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	1	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	200	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	10	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	0.8	NO	NO
Trichloroethane	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	47	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LD)0.5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LDQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	04-260	04-260	04-260	04-260	04-260	04-260	04-260	04-260	04-261	04-261
Level	MC1											
Date Sampled			11/21/84	07/11/85	07/11/85	09/26/85	11/01/85	01/10/86	04/18/86	04/18/86	06/12/83	12/28/83
Sampled by			RAS	RADIAN	RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	SCED	SCED
Date Analyzed			12/04/84	07/12/85	07/14/85	10/17/85	11/13/85	01/18/86	04/23/86	04/23/86	09/09/83	01/06/84
Lab			RAS	RAS	RAS	ANLAB	BAC	SAC	SAC	SAC	RAS	RAS
Field Analysis				YDA	YDB							
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LO)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

YDA = First field duplicate analysis  
YDB = Second field duplicate analysis  
YDC = First laboratory duplicate analysis  
YDE = Second laboratory duplicate analysis  
YDF = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SCED = Sacramento County Health Department  
USAF = United States Air Force  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
PAC = Air Force Lab at McChlellan  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantization  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

[illegible]

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LQ = Limit of quantitation  
NE = Not established

- RAUTMAN = Rautman Corporation, Sacramento
- SCSD = Sacramento County Health Department
- SMC = Barton & Caldwell
- SWAC = Rautman Analytical Services
- SAC = Rautman Analytical Services, Sacramento

LIA = First laboratory duplicate analysis  
 L2B = Second laboratory duplicate analysis  
 CH = Off base incident(s) call

MASTER LOG OF WELLS SAMPLED FOR METHEO BOLD ANALYSES (SHEETED 601 PRIOR TO OCTOBER 1988)

Parameter	DBS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			CH-262	CH-263	CH-263	CH-263	CH-263	CH-264	CH-264	CH-264	CH-264	CH-264
Date Sampled			10/23/86	08/12/83	03/20/84	06/22/84	08/10/84	11/21/84	08/12/83	03/20/84	06/22/84	08/10/84
Sampled By			RADIAN	SEED	SEED	SEED	SEED	SEED	SEED	SEED	SEED	SEED
Date Analyzed			10/27/86	09/09/83	04/03/84	07/05/84	08/17/84	12/05/84	09/09/83	04/03/84	07/05/84	08/16/84
Lab			SAC	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
Field Analysis												
Lab Analysis			LDB									
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	0.14C	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDB = Second laboratory duplicate analysis

CH = QEC from residential well

RADIAN = Radion Corporation, Sacramento

SEED = Sacramento County Health Department

RMS = Radion Analytical Services

SAC = Radion Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DBS	U.S. EPA	Action	Primary	WELL NUMBER									
					QA-264	QA-264	QA-264	QA-265	QA-265	QA-265	QA-267	QA-267	QA-267	QA-267
			Level	WCL										
Date Sampled					11/15/85	07/18/86	10/22/86	08/12/83	03/20/84	06/22/84	11/21/84	07/21/83	03/20/84	06/22/84
Sampled By					RACIAN	RACIAN	RACIAN	SCHD	SCHD	SCHD	SCHD	SCHD	SCHD	SCHD
Date Analyzed					11/25/85	07/22/86	10/27/86	09/09/83	04/03/84	07/05/84	12/04/84	07/27/83	04/03/84	07/03/84
Lab					BAC	SAC	SAC	RMS	RMS	RMS	RMS	CAL	RMS	RMS
Field Analysis														
Lab Analysis														
Chloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE			NO	NO	NO	NO	NO	0.3	NO	NO	NO	0.3
1,1-Dichloroethene	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Dichloroethene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	1	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	200	200			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CR = Off base residential well

RACIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 BAC = Benson & Caldwell  
 CAL = California Analytical Labs  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Q1-267	Q1-268	Q1-268	Q1-268	Q1-268	Q1-268	Q1-268	Q1-268	Q1-268	Q1-268	Q1-268
	Action	Priority											
	Level	MCL											
Data Sampled			08/10/84	07/11/85	08/15/83	03/20/84	06/22/84	08/10/84	11/21/84	07/11/85	11/01/85	11/01/85	01/14/86
Sampled By			RAS	RAS	SCED	SCED	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Data Analyzed			08/16/84	07/14/85	08/17/83	04/04/84	07/03/84	08/16/84	12/04/84	07/15/85	11/13/85	11/13/85	01/23/86
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	SAC
Field Analysis													
Lab Analysis													
Chloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE µg/l

NEA = First field duplicate analysis  
 NEB = Second field duplicate analysis  
 NEC = Off base residential well

NEA = Radian Corporation, Sacramento  
 NEB = Sacramento County Health Department  
 NEC = Brown & Caldwell  
 NEC = Radian Analytical Services  
 NEC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-269	04-269	04-269	04-269	04-269	04-269	04-269	04-269	04-269	04-269
Date Sampled			08/15/83	03/20/84	06/22/84	08/10/84	11/27/84	07/09/85	02/14/86	07/14/86	10/21/86	01/23/87
Sampled By			SCH	SCH				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/17/83	04/03/84	07/05/84	08/16/84	12/05/84	07/12/85	01/23/86	07/23/86	10/23/86	01/29/87
Lab			RAS	RAS	RAS	RAS	RAS	RAS	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	1.2	NO	2.1	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	0.3	0.1	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethene	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	0.7	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CM = Off base residential well  
 RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 BGC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED PER METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA		WELL NUMBER									
	DES	Primary	QA-270	QA-315	QA-315	QA-330	QA-330	QA-330	QA-330	QA-330	QA-330	QA-330
Date Sampled	Action	Level										
Supplied By												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Chloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propyl chloride	2		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Dichloroethane	16		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Dichloroethane	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Dichloroethane	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

DES = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 CH = OFF base residential well

DES = California Department of Health Services  
 RADIAN = Radon Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radon Analytical Services  
 SAC = Radon Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYL BOD ANALYTES PERIOD 601 PRIOR TO OCTOBER 1989

Parameter	DES U.S. EPA		WELL NUMBER									
	Action	Primary	04-330	04-331	04-331	04-331	04-331	04-331	04-331	04-331	04-331	04-332
Level												
Date Sampled			07/10/86	10/15/86	10/13/83	07/03/85	11/12/85	01/07/86	04/03/86	07/09/86	10/15/86	10/17/83
Sampled By			RADIAN	RADIAN	DES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	DES
Date Analyzed			07/14/86	10/17/86	10/26/83	07/08/85	11/22/85	01/14/86	04/08/86	07/12/86	10/17/86	10/27/83
Lab			SAC	SAC	RAS	RAS	RAC	SAC	SAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	0.8(2.2)	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloro-2-methyl ethyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = Off base residential well

DES = California Department of Health Services

RADIAN = Radian Corporation, Sacramento

RAC = Radian & Caldwell

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	ML	WELL NUMBER									
			QA-332	QA-332	QA-332	QA-332	QA-332	QA-332	QA-332	QA-332	QA-333	QA-333
Date Sampled			07/11/85	11/13/85	01/07/86	04/03/86	07/09/86	11/15/86	01/20/87	10/27/83	12/28/83	07/11/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	DES	DES	RADIAN
Date Analyzed			07/16/85	11/22/85	01/14/86	04/08/86	07/12/86	10/17/86	01/23/87	11/09/83	01/07/84	07/16/85
Lab			RAS	BAC	SAC	SAC	SAC	SAC	SAC	RMS	RAS	RAS
Field Analysis												
Lab Analysis												FTA
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	0.7	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	0.2	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

DES = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 BAC = Bowen & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

FTA = First field duplicate analysis  
 CH = Off base residential well

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	Q1-333	Q1-333	Q1-333	Q1-333	Q1-333	Q1-333	Q1-334	Q1-334	Q1-334	Q1-334
Date Sampled			11/12/85	11/12/85	01/07/86	04/03/86	10/15/86	01/20/87	10/17/83	06/26/84	07/03/85	10/31/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	DHS	RADIAN	RADIAN	RADIAN
Date Analyzed			11/22/85	11/22/85	01/14/86	04/08/86	10/17/86	01/26/87	10/28/83	07/06/84	07/08/85	11/12/85
Lab			BAC	BAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	BAC
Field Analysis			FTB	FTB								
Lab Analysis			LDA	LDB								
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.6
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FTB = Second field duplicate analysis  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 Q1 = Off base residential well

DHS = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 BAC = Rosen & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DES		U.S. EPA		WELL NUMBER											
	Action	Priority	Level	MDL	Q1-334	Q1-334	Q1-334	Q1-334	Q1-334	Q1-335	Q1-335	Q1-335	Q1-335	Q1-335	Q1-335	Q1-335
Date Sampled					04/03/86	07/09/86	07/09/86	10/15/86	01/19/87	07/03/85	10/31/85	01/07/86	04/03/86	07/09/86	10/15/86	
Sampled by					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed					04/08/86	07/12/86	07/16/86	10/17/86	01/21/87	07/08/85	11/12/85	01/11/86	04/08/86	07/12/86	10/17/86	
Lab					SAC	SAC	USAF	SAC	SAC	RAS	BAC	SAC	SAC	SAC	SAC	
Field Analysis																
Lab Analysis																LDA
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDN = First Laboratory duplicate analysis

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

USAF = United States Air Force

BAC = Brown & Caldwell

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantization

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	ML	WELL NUMBER									
					Q4-335	Q4-335	Q4-336	Q4-336	Q4-336	Q4-336	Q4-336	Q4-338	Q4-338	Q4-338
Date Sampled					10/15/86	01/19/87	10/17/83	07/03/85	10/31/85	04/03/86	04/03/86	07/09/86	10/15/86	01/19/87
Sampled By					RADIAN	RADIAN	DES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					10/17/86	01/21/87	10/26/83	07/09/85	11/12/85	04/07/86	04/07/86	07/12/86	10/17/86	01/21/87
Lab					SAC	SAC	RAS	RAS	BAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis					LDB					LDA	LDB			
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
Q4 = Off base residential well

DES = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
BAC = Benson & Caldwell  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METAL ANALYTES (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	CM-340	CM-340	CM-340	CM-340	CM-340	CM-340	CM-340	CM-340	CM-340	CM-340
Date Sampled			08/24/83	08/24/83	03/15/84	08/16/84	07/03/85	10/31/85	01/07/86	04/03/86	07/08/86	10/15/86
Sampled By			DES	DES	DES	DES	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			08/25/83	08/25/83	03/17/84	08/29/84	07/09/85	11/12/85	01/14/86	04/07/86	07/11/86	10/17/86
Lab			RMS	RMS	RMS	RMS	RMS	BGC	BGC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	1.5	NO	3.5	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,2-Dichloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	0.1	NO	NO	NO	0.2	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

DES = California Department of Health Services  
 RADIANT = Radian Corporation, Sacramento  
 BGC = Brown & Caldwell  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

DES = First field duplicate analysis  
 RMS = Second field duplicate analysis  
 CM = GCE base residential well

MASTER LOG OF WELLS SAMPLED FOR METHYLED BOD ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DES	U.S. EPA	Primary	QA-340	QA-341	QA-341	QA-341	QA-341	QA-341	QA-352	QA-352	QA-352	QA-352
	Action	Level	ML										
Date Sampled				01/23/87	04/15/86	07/08/86	07/08/86	10/15/86	01/26/87	01/26/87	06/27/83	07/02/85	10/31/85
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				01/29/87	04/17/86	07/11/86	07/11/86	10/20/86	01/30/87	01/30/87	07/05/85	07/05/85	11/12/85
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	RAS	RAS	BAC
Field Analysis													
Lab Analysis													
Chloroethane	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

RIA = First field duplicate analysis  
 FEB = Second field duplicate analysis  
 LTB = Second laboratory duplicate analysis  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR MIXED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DBS	U.S. EPA	Action	Primary	WELL NUMBER									
					04-352	04-352	04-352	04-352	04-354	04-354	04-354	04-354	04-354	04-354
Date Sampled					01/16/86	04/11/86	07/11/86	10/14/86	06/27/83	07/02/85	10/31/85	12/30/85	02/07/86	07/11/86
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	USAF	RADIANT	RADIANT
Date Analyzed					01/29/86	04/15/86	07/15/86	10/15/86		07/05/85	11/12/85		02/10/86	04/15/86
Lab					SAC	SAC	SAC	SAC		RAS	BAC	ANLAB	SAC	SAC
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	67	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

CV = 0.02 base residential well

RADIANT = Radiant Corporation, Sacramento  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RAS = Radiant Analytical Services  
 ANLAB = AnLab Analytical Lab  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DATE	U.S. EPA Action Level	U.S. EPA Primary MCL	QA-354	QA-354	QA-355	QA-355	QA-355	QA-355	QA-355	QA-355	QA-355	QA-355
Date Sampled	10/14/86			10/14/86	10/14/86	06/27/83	06/25/84	07/02/85	11/13/85	11/13/85	11/13/85	01/16/86	07/09/86
Sampled By	RADIATION			RADIATION	RADIATION			RADIATION	RADIATION	RADIATION	RADIATION	RADIATION	RADIATION
Date Analyzed	10/15/86			10/15/86	10/15/86		07/05/84	07/08/85	11/22/85	11/22/85	11/22/85	01/20/86	07/12/86
Lab	SAC			SAC	SAC		RMS	RMS	BAC	BAC	BAC	SAC	SAC
Field Analysis	LDA			LDA	LDB				FOA	FOA	FOA	USAF	USAF
Lab Analysis	LDA			LDA	LDB				LDA	LDB	LDB		LDA
Chloromethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromomethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NE	0.15NC	0.15NC	NO	NO	NO	NO	NO	NO	0.1	0.1
Chloroform	100	100	0.11C	0.11C	0.16NC	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloromethane	5	5	0.46C	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	0.4	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FOA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CH = Off base residential well

RADIATION = Radiation Corporation, Sacramento  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RMS = Radiation Analytical Services  
 SAC = Radiation Analytical Services, Sacramento

NC = Result was not confirmed in second column analysis  
 NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYL 8010 ANALYSES (SINCE 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	04-355	04-356	04-357	04-358	04-359	04-360	04-361	04-362	04-363	04-364
Date Sampled			07/08/86	10/14/86	06/27/83	07/02/85	10/31/85	01/20/86	11/09/79	06/27/83	01/20/84	07/02/85
Sampled by			MDU/M	MDU/M	MDU/M	MDU/M	MDU/M	MDU/M	MDU/M	MDU/M	MDU/M	MDU/M
Date Analyzed			07/12/86	10/15/86	07/08/85	07/08/85	11/12/85	01/30/86			01/31/84	07/08/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	ANLAB		SAC	SAC
Field Analysis												
Lab Analysis			L2B									
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tris-1,3-Dichloropropane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	97	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloroethane	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichloroethane	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

NE = First field duplicate analysis  
 NE = Second field duplicate analysis  
 L2B = Second laboratory duplicate analysis  
 CU = CEE base residential well

MDU/M = Radian Corporation, Sacramento  
 SAC = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

Parameter	DBS Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			04-358	04-358	04-358	04-358	04-358	04-358	04-358	04-358	04-358	04-358	04-359	
Date Sampled			11/13/85	02/07/86	04/11/86	07/09/86	10/14/86	10/14/86	06/24/83	11/14/84	04/02/85	07/02/85	10/31/85	
Sampled By			INDIAN	INDIAN	INDIAN	INDIAN	INDIAN	INDIAN					INDIAN	
Date Analyzed			11/24/85	02/10/86	04/15/86	07/12/86	10/15/86	10/15/86			04/03/85	07/08/85	11/12/85	
Lab			SAC	SAC	SAC	SAC	SAC	SAC		RMS	RMS	RMS	RAC	
Field Analysis														
Lab Analysis													PTA	
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzal 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	1.9	NO	NO	
1,1,1,1-Tetrachloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	0.7	1.7	NO	
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1,2-Tetrachloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.3	
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,1,1,1,2-Pentachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

**1/2" x 1/2" x 1/2" TV**

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
OM = Off base residential well

**RADIANT** = Radiant Corporation, Sacramento

BSC - Brown &amp; Caldwell

CAL = California Analytical Labs

- Commercial Analytical Labs
- RadLan Analytical Services

SAC      = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METRO 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-359	04-359	04-359	04-359	04-359	04-359	04-360	04-360	04-360	04-360
Date Sampled			10/31/85	10/31/85	01/24/86	02/12/86	04/14/86	07/09/86	06/24/83	03/12/84	11/14/84	07/02/85
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT		DES		RADIANT
Date Analyzed			11/12/85	11/14/85	01/28/86	02/17/86	04/16/86	07/12/86		03/17/84	11/21/84	07/05/85
Lab			BGC	BGC	QAL	SAC	SAC	SAC	QAL	BAS	BAS	BAS
Field Analysis			FB	FB								
Lab Analysis			LDA	LDB								
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.57
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND
1,3-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.95
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

FB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
QAL = Off base residential well

DES = California Department of Health Services  
RADIANT = Radiant Corporation, Sacramento  
BGC = Brown & Caldwell  
QAL = California Analytical Labs  
BAS = Radiant Analytical Services  
QAL = California Weber Lab  
SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR PERHAP 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	Primary MCL	WELL NUMBER										Q4-361	Q4-361	Q4-361	Q4-361	Q4-361	Q4-361
					Q4-360	Q4-360	Q4-360	Q4-360	Q4-360	Q4-360	Q4-360	Q4-360	Q4-360	Q4-360						
Date Sampled					10/31/85	02/07/86	04/14/86	07/11/86	10/22/86	11/29/86	07/03/85	01/20/86	04/14/86	10/22/86						
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN						
Date Analyzed					11/13/85	02/10/86	04/16/86	07/15/86	10/24/86	12/10/86	07/08/85	01/30/86	04/16/86	10/24/86						
Lab					B&C	SAC	SAC	SAC	SAC	RAS	RAS	SAC	SAC	SAC						
Field Analysis																				
Lab Analysis																				
Chloroethane	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	0.6	0.6	0.2	0.2	0.2	0.2	0.22	0.19C	0.22	0.19C	0.22	0.19C						
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	0.6	0.6	0.4	0.4	0.4	0.4	0.32	0.19C	0.32	0.19C	0.32	0.19C						
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	0.5	0.5	0.8	0.8	0.8	0.8	0.79	0.33C	0.79	0.33C	0.79	0.33C						
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	67	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 GW = Off base residential well  
 RADIAN = Radian Corporation, Sacramento  
 B&C = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-361	04-363	04-363	04-363	04-363	04-363	04-363	04-363	04-363	04-363
Date Sampled			01/23/87	06/28/83	08/24/83	12/22/83	08/16/84	08/16/84	08/16/84	10/02/84	03/28/85	07/03/85
Sampled by			RADIAN			DHS					RADIAN	RADIAN
Date Analyzed			01/29/87			01/03/84	08/29/84	09/07/84	09/10/84	10/16/84	04/01/85	07/08/85
Lab			SAC			RAS		RAS		RAS	RAS	RAS
Field Analysis												
Lab Analysis			LDB									
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	1.3	NO	5.3	NO	2.1	3.7
Trichloroethene	3400	NE	NO	NO	NO	NO	33.0	1.2	15.2	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	5.0	2.5	2.6	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	1.42	2.2	1.1	0.8	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	0.64				0.9	4.8	4.9
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	0.61	0.6	NO	0.8	0.5	2.2	1.6
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDB = Second laboratory duplicate analysis  
CH = Off base residential well

DHS = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
RSC = Rosen & Caldwell  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-363	04-363	04-363	04-363	04-363	04-363	04-363	04-363	04-363	04-363
Date Sampled			01/23/86	01/24/86	04/14/86	10/22/86	06/28/83	08/24/83	11/15/85	11/15/85	01/20/86	04/11/86
Sampled By			MDJAN	MDJAN	MDJAN	MDJAN	MDJAN	MDJAN	MDJAN	MDJAN	MDJAN	MDJAN
Date Analyzed			02/05/86	01/28/86	04/16/86	10/24/86			11/25/85	11/25/85	01/30/86	04/15/86
Lab			SAC	CEL	SAC	SAC			BAC	BAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	3.0	1.6	3.9	2.3C	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	0.6	0.6	1.9	0.50	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	1.1	0.5	0.7	0.56C	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 04 = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 CEL = California Meter Lab  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantization  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METICID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-365	04-365	04-452	04-454	04-454	04-454	04-454	04-454	04-454	04-454
Date Sampled			10/22/86		01/20/84	03/20/84	03/20/84	07/03/85	11/13/85	04/14/86	07/11/86	10/22/86
Sampled By			RADIAN		DES	DES	DES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/26/86		01/31/84	04/03/84	04/03/84	07/08/85	11/24/85	04/16/86	07/15/86	10/24/86
Lab			SAC		RAS	RAS	RAS	RAS	BAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	0.5	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	0.7	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-chloro-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 GW = GEE base residential well

DES = California Department of Health Services  
 RADIAN = Radon Corporation, Sacramento  
 BAC = Benson & Caldwell  
 RAS = Radon Analytical Services  
 SAC = Radon Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERHED 8010 ANALYTES (PERHED 601 PRIOR TO OCTOBER 1986)

Parameter	DES	U.S. EPA	Q1-USA	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-478	Q1-478
Date Sampled	DES	U.S. EPA	Q1-USA	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-478	Q1-478
Sampled By	DES	U.S. EPA	Q1-USA	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-478	Q1-478
Date Analyzed	DES	U.S. EPA	Q1-USA	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-478	Q1-478
Lab	DES	U.S. EPA	Q1-USA	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-478	Q1-478
Field Analysis	DES	U.S. EPA	Q1-USA	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-478	Q1-478
Lab Analysis	DES	U.S. EPA	Q1-USA	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-472	Q1-478	Q1-478
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethene	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethene	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloropropane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	67	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethylvinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzofuran	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethene	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(100)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

DES = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 SCHO = Sacramento County Health Department  
 BAC = Breen & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ALL UNITS ARE ug/l  
 LDB = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 Q1 = Off base residential well

## MASTER LOG OF WELLS SAMPLED FOR METHYLED BODILY ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	Q4-478	Q4-478	Q4-478	Q4-478	Q4-484	Q4-485	Q4-485	Q4-503	Q4-503	Q4-503
Date Sampled			03/12/84	07/18/84	08/24/84	12/12/84	03/28/85	01/20/84	02/23/84	03/15/84	10/31/85	11/13/85
Sampled By			DES					SXD	SXD	DES	RADIAN	RADIAN
Date Analyzed			03/17/84	07/24/84	08/30/84	12/14/84	04/01/85	01/31/84	02/28/84	03/17/84	11/12/85	11/24/85
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	BAC	BAC
Field Analysis												
Lab Analysis											LDB	LDB
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	1.0	NO	NO	NO	NO	NO	NO	1.3	NO	NO
Trichloroethylene	3400	NE	NO	NO	0.2	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	1.2	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethene	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	0.2	NO	NO	NO	1.6	0.1	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	0.3	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDB = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
Q4 = Off base residential well

DES = California Department of Health Services  
RADIAN = Radian Corporation, Sacramento  
SXD = Sacramento County Health Department  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
NE = Nothing detected  
NA = Not analyzed  
LQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR MEDIAN 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Priority	Q4-503	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520	Q4-520
Date Sampled	NE	NE	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86	01/16/86
Sampled By	NE	NE	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed	NE	NE	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86	01/29/86
Lab	NE	NE	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Lab Analysis	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethene	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloropropane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	67	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethylvinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
CF = Off base residential well

RADIAN = Radian Corporation, Sacramento

CAL = California Analytical Labs

RAS = Radian Analytical Services

MCC = Air Force Lab at McEllan

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	04-537	04-537	04-537	04-537	04-541	04-541	04-541	04-541	04-541	04-541
	Level	MDL										
Date Sampled			07/10/86	07/10/86	10/20/86	01/30/87	06/20/83	06/06/84	08/13/84	11/03/84	03/21/85	07/08/85
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT						RADIANT
Date Analyzed			07/14/86	07/16/86	10/21/86	02/02/87		06/18/84	08/24/84	11/17/84	03/25/85	07/11/85
Lab			SAC	USAF	SAC	SAC		RAS	RAS	RMS	RAS	RAS
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS: #/lb ug/l

04 = GEE from residential well

RADIANT = Radian Corporation, Sacramento

USAF = United States Air Force

RAC = Rosen & Caldwell

RMS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantization

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHIED 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	01/09/86 RADIAN SAC	06/20/83 RAS	03/06/84 RAS	03/15/84 RAS	06/06/84 RAS	08/13/84 RAS	11/01/84 RAS	03/21/85 RAS	07/08/85 RAS	11/06/85 RADIAN BAC	11/06/85 RADIAN BAC	11/06/85 RADIAN BAC	11/06/85 RADIAN BAC	01/09/86 RADIAN SAC
Date Sampled																
Sampled by																
Date Analyzed																
Lab																
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethene	6	7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloropropane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromobenzene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(100)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

NE = First field duplicate analysis

NE = Second field duplicate analysis

NE = Off base residential well

RADIANT = Radiant Corporation, Sacramento

RACB = Regional Water Quality Control Board

BAC = Brown & Caldwell

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

LO = Limit of quantitation

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYSES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority ML	QW-543	QW-543	QW-543	QW-543	QW-544	QW-544	QW-544	QW-544	QW-544
Date Sampled			04/14/86	04/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/17/86	04/17/86	07/17/86	07/17/86	07/17/86	07/17/86	07/17/86	07/17/86	07/17/86
Lab			SAC	WAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB	LDA	LDB					
Lab Analysis											
Chloroform	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroform	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Triethylamine	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

RA = First field duplicate analysis  
 RB = Second field duplicate analysis  
 LB = First laboratory duplicate analysis  
 LB = Second laboratory duplicate analysis  
 CW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCSD = Sacramento County Health Department  
 BGC = Brown & Caldwell  
 CML = California Analytical Labs  
 BAS = Radian Analytical Services  
 WAC = Air Force Lab at McChallen  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METEORIC 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			OH-544	OH-544	OH-544	OH-550	OH-560	OH-562	OH-582	OH-599	OH-617	OH-617
Date Sampled			10/28/86	10/28/86	10/31/86	10/27/83	10/27/83	11/01/83	01/29/80	01/24/86	12/05/83	04/09/85
Sampled By			RADIANT	RADIANT	RADIANT	SCED	SCED	SCED	RADIANT	RADIANT	SCED	SCED
Date Analyzed			10/30/86	10/30/86	11/13/86	11/04/83	11/04/83	11/14/83	02/06/86	02/06/86	12/12/83	04/10/85
Lab			SAC	SAC	ELI	RMS	RMS	RMS	CHL	SAC	RMS	RMS
Field Analysis			PCA	PCA	PCA			ANLAB				
Lab Analysis			LIB	LIB	LIB							
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	27	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

PCA = First field duplicate analysis  
 LIB = Second field duplicate analysis  
 CHL = Second laboratory duplicate analysis  
 SAC = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 CHL = California Analytical Labs  
 RMS = Radiant Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radiant Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantization  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	EHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-618	04-620	04-620	04-620	04-620	04-620	04-620	04-620	04-620	04-620
Date Sampled			06/20/84	09/21/83	04-620	04-620	04-620	04-620	04-620	04-620	04-620	04-620
Sampled By			SCHD									
Date Analyzed			06/28/84	09/27/83	04-620	04-620	04-620	04-620	04-620	04-620	04-620	04-620
Lab			RAS	CAL	RAS	RAS	RAS	RAS	RAS	RAS	RAS	SAC
Field Analysis												
Lab Analysis												
Chloroform	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoform	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethene	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 USAP = United States Air Force  
 BSC = Bowen & Caldwell  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 ANLAB = Arlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

[illegible]

1/21 2008 17/1

LD = First laboratory duplicate analysis  
 UD = Second laboratory duplicate analysis  
 TW = Off base residential well

- RADIAN = Radian Corporation, Sacramento
- SCD = Sacramento County Health Department
- CAL = California Analytical Labs
- RAS = Radian Analytical Services
- ANLAB = Anlab Analytical Lab
- SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DBS	U.S. EPA	Action Level	Primary MCL	WELL NUMBER									
					04-621	04-621	04-621	04-621	04-621	04-621	04-621	04-621	04-621	04-622
Date Sampled					08/07/84	11/15/84	07/09/85	11/04/85	11/04/85	01/15/86	04/08/86	10/28/86	11/27/84	03/20/85
Sampled By					RAS	RAS	RAS	RAC	RAC	RAC	RAC	RAC	RAC	RAS
Date Analyzed					08/13/84	11/21/84	07/12/85	11/14/85	11/14/85	01/26/86	04/11/86	10/30/86	12/05/84	03/22/85
Lab					RAS	RAS	RAS	RAC	RAC	RAC	RAC	RAC	RAC	RAS
Field Analysis														
Lab Analysis														
Chloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FIA = First field duplicate analysis  
 FIB = Second field duplicate analysis  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 CH = Off base residential well

RADIUM = Radium Corporation, Sacramento  
 RAC = Rensen & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	NCL	04-622	04-622	04-622	04-622	04-622	04-622	04-623	04-623	04-623	04-623
Date Sampled					07/12/85	09/26/85	11/04/85	01/15/86	04/08/86	07/14/86	10/16/86	03/15/84	06/20/84	08/07/84
Sampled By					RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCD	RAS	RAS
Date Analyzed					07/17/85	10/17/85	11/15/85	01/26/86	04/11/86	07/17/86	10/20/86	03/29/84	06/29/84	08/13/84
Lab					RAS	ANLAB	BAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS
Field Analysis														
Lab Analysis														
Chloroethene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO		NO	NO	NO	NO	NO	NO	NO	1.2	NO	0.1
1,1-Dichloroethene	6	7	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO		NO	0.5	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SCD = Sacramento County Health Department  
USAF = United States Air Force  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
ANLAB = AnLab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR MIXED BOD ANALYTES (REVISED 6/1 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA Action Level	Priority ML	WELL NUMBER									
			04-623	04-623	04-623	04-623	04-623	04-623	04-623	04-623	04-624	04-624
Date Sampled			11/15/84	03/20/85	07/05/85	09/26/85	11/04/85	01/15/86	04/08/86	07/14/86	10/16/86	11/15/86
Sampled by					RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			11/26/84	03/22/85	07/09/85	10/17/85	11/15/85	01/26/86	04/11/86	07/17/86	10/20/86	11/26/86
Lab			RAS	RAS	RAS	ANLAB	BAC	SAC	SAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
GW - GEE base residential well

RADIAN = Radian Corporation, Sacramento  
USAF = United States Air Force  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Level	04-62A	04-62A	04-62A	04-62A	04-62A	04-62A	04-62A	04-62A	04-62A	04-62S
Date Sampled			07/05/85	07/11/85	09/26/85	11/04/85	11/04/85	07/15/86	04/08/86	07/14/86	10/20/86	03/15/84
Sampled By			RADIAN	RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SOED
Date Analyzed			07/10/85	07/12/85	10/17/85	11/14/85	11/14/85	07/26/86	04/11/86	07/17/86	10/21/86	03/19/84
Lab			RAS	RAS	ANLAB	BAC	BAC	SAC	SAC	SAC	SAC	RAS
Field Analysis			FOA	FOA								
Lab Analysis						IDA	LIB					
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	0.4	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS: NE: ug/l

FOA = First field duplicate analysis  
 FOA = Second field duplicate analysis  
 IDA = First laboratory duplicate analysis  
 LIB = Second laboratory duplicate analysis  
 ON = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SOED = Sacramento County Health Department  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-625	04-625	04-625	04-625	04-625	04-625	04-625	04-625	04-625	04-626
Date Sampled			06/20/84	11/15/84	03/21/85	07/05/85	09/26/85	11/04/85	01/15/86	04/08/86	07/15/86	11/15/84
Sampled By						RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			06/29/84	11/26/84	03/22/85	07/10/85	10/17/85	11/14/85	01/26/86	04/11/86	07/24/86	11/21/84
Lab			RAS	RAS	RAS	RAS	ANLAB	BAC	SAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
GM = GCE base residential well

RADIAN = Radian Corporation, Sacramento  
USAF = United States Air Force  
BAC = Rosen & Caldwell  
RAS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



[illegible]

**ALL UNITS ARE U.S./L**

FD1 = First field duplicate analysis  
FD2 = Second field duplicate analysis  
OD = Off base residential well

**RADIAN = Radian Corporation, Sacramento**

USAF - United States Air Force

BSC = Brown &amp; Caldwell

- Radiation Analytical Services

ANLAB - Analytical Lab

SAC = Radlan Analytical Services, Sacramento, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEAVY METAL ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	ML	QA-627	QA-627	QA-627	QA-627	QA-627	QA-627	QA-628	QA-628	QA-628	QA-628
Date Sampled						07/05/85	11/04/85	01/17/86	04/08/86	07/15/86	10/16/86	10/24/83	03/15/84	06/20/84	08/06/84
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCHD	SCHD		
Date Analyzed						07/10/85	11/14/85	01/29/86	04/11/86	07/24/86	10/20/86	11/01/83	03/19/84	06/29/84	08/06/84
Lab						RMS	BAC	SAC	SAC	SAC	SAC	RMS	RMS	RMS	RMS
Field Analysis															
Lab Analysis															
Chloroethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE				1.7	NO	NO	NO	NO	NO	NO	1.3	NO	NO
Trichloroethene	3400	NE				NO	NO	NO	NO	NO	NO	NO	1.8	NO	NO
1,1-Dichloroethane	6	7				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS #/G/L

NE = Not analyzed

LOQ = Limit of quantitation

NE = Not established

NE = Not established

NE = Not established

RADIAN = Radian Corporation, Sacramento

SCHD = Sacramento County Health Department

BAC = Brown & Caldwell

RMS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

## MASTER LOG OF WELLS SAMPLED FOR PERHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER									
			Action	Primary	ML	04-628	04-628	04-628	04-628	04-628	04-628	04-629
Date Sampled						11/15/84	03/21/85	07/10/85	11/04/85	01/15/86	04/08/86	07/15/86
Sampled By								RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed						11/26/84	03/25/85	07/15/85	11/15/85	10/26/86	04/11/86	07/24/86
Lab						RAS	RAS	RAS	BAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND		ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE				ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE				ND	2.7	ND	ND	ND	ND	ND
Trichloroethene	3400	NE				ND	2.8	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND		ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE				ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE				ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100				ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND		ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200				ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND		ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100				ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE				ND	ND	ND	ND	ND	ND	ND
Triser-1,3-dichloropropane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND		ND	ND	ND	ND	ND	ND	ND
Dibromodichloroethane	100	100				ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE				ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	87	NE				ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE				ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100				ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE				ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE				ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE				NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE µg/l  
 CH = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 BAC = Bosen & Caldwell  
 RAS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority	WELL NUMBER									
			04-629	04-629	04-630	04-630	04-630	04-630	04-630	04-630	04-630	04-630
Date Sampled			01/23/86	04/09/86	11/03/83	03/15/84	06/20/84	08/06/84	11/19/84	03/21/85	07/02/85	11/04/85
Sampled By			RADIAN	RADIAN	SCH	SCH	RAS	RAS	RAS	RAS	RADIAN	RADIAN
Date Analyzed			02/05/86	04/13/86	11/15/83	03/19/84	06/29/84	08/08/84	11/28/84	03/25/85	07/10/85	11/15/85
Lab			SAC	SAC	RAS	RAS	RAS	RAS	RAS	RAS	RAS	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	0.6	ND	ND	ND	5.7	2.89	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CM = Off base residential well  
 RADIAN = Radian Corporation, Sacramento  
 SCH = Sacramento County Health Department  
 BSC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Q4-630	Q4-630	Q4-630	Q4-630	Q4-631	Q4-631	Q4-631	Q4-631	Q4-631	Q4-631
Date Sampled			04/09/86	04/09/86	07/15/86	10/20/86	10/20/86	10/20/86	10/20/86	10/20/86	10/20/86	10/20/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/13/86	04/13/86	07/24/86	10/21/86	10/21/86	10/21/86	10/21/86	10/21/86	10/21/86	10/21/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB		LDA	LDB					
Lab Analysis			LDA	LDB		LDA	LDB					
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	0.25	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 ON = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SOHD = Sacramento County Health Department  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Level	04-631	04-631	04-631	04-631	04-631	04-631	04-632	04-632	04-632	04-632
Date Sampled			07/05/85	11/04/85	11/04/85	01/15/86	04/09/86	07/15/86	10/20/86	10/17/83	03/15/84	08/07/84
Sampled by			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	SCED	SCED	SCED
Date Analyzed			07/10/85	11/15/85	11/15/85	01/26/86	04/13/86	07/24/86	10/21/86	10/28/83	03/29/84	08/13/84
Lab			RMS	BAC	BAC	SAC	SAC	SAC	SAC	RMS	RMS	RMS
Field Analysis												
Lab Analysis				UDA	UDA							
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	2, 34	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	0.9	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	0.5	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS: #/L

UDA = First Laboratory duplicate analysis

LIB = Second Laboratory duplicate analysis

OM = Off base residential well

RADIANT = Radian Corporation, Sacramento

SCED = Sacramento County Health Department

BAC = Bowen & Caldwell

RMS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LDQ = Limit of quantization

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEATED 8010 ANALYTES OBTAINED 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-632	04-632	04-632	04-632	04-632	04-632	04-632	04-632	04-633	04-633
Date Sampled			11/19/84	03/21/85	07/05/85	11/04/85	01/15/86	04/09/86	07/15/86	10/20/86	11/19/79	02/27/80
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed			11/28/84	03/25/85	07/10/85	11/15/85	01/26/86	04/13/86	07/24/86	10/21/86		
Lab			RAS	RAS	RAS	RAC	SAC	SAC	SAC	SAC	ANLAB	CAL
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	2.7	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	2.7	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = CEE base residential wall

RADIAN = Radian Corporation, Sacramento

SCED = Sacramento County Health Department

RAC = Rosen & Caldwell

CAL = California Analytical Labs

RAS = Radian Analytical Services

ANLAB = AnLab Analytical Lab

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS (PERIOD 601 PRIOR TO OCTOBER 1986)

Parameter	DHS U.S. EPA		WELL NUMBER									
	Action	Priority	04-633	04-633	04-633	04-633	04-633	04-633	04-633	04-633	04-633	04-633
Level	PCB											
Date Sampled			03/19/84	03/28/84	04/12/84	06/20/84	08/07/84	11/19/84	03/20/85	07/05/85	07/05/85	11/04/85
Sampled By			SEED									
Date Analyzed			04/02/84	04/04/84	04/13/84	06/29/84	08/13/84	11/28/84	03/22/85	07/10/85	07/10/85	11/15/85
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	B&C
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropane	67	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NA = First field duplicate analysis  
 NE = Second field duplicate analysis  
 ND = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SEED = Sacramento County Health Department  
 B&C = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1980)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-633	04-633	04-633	04-633	04-634	04-634	04-634	04-634	04-634	04-636
Date Sampled			04/09/86	07/15/86	07/15/86	10/20/86	12/05/79	06/30/83	03/20/84	06/21/84	08/07/84	11/19/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN			SCED			SCED
Date Analyzed			04/13/86	07/22/86	07/22/86	10/21/86			04/04/84	06/29/84	08/13/84	11/28/84
Lab			SAC	SAC	SAC	SAC	ANLAB		RMS	RMS	RMS	RMS
Field Analysis												
Lab Analysis			LDA	LDA	LDB							
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	0.1	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.5
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
OM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SCED = Sacramento County Health Department  
RMS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METICID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Q4-636	Q4-637	Q4-637	Q4-637	Q4-637	Q4-637	Q4-637	Q4-637	Q4-637	Q4-637
Date Sampled			01/20/84	11/26/84	04/03/85	07/09/85	11/01/85	11/01/85	01/14/86	04/04/86	07/14/86	10/21/86
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/31/84	12/05/84	04/04/85	07/12/85	11/13/85	11/13/85	01/23/86	04/10/86	07/23/86	10/23/86
Lab			RMS	RMS	RMS	RMS	BGC	BGC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis							LDA	LDB				
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

BGC = Brown &amp; Caldwell

RMS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYLED BODIL ANALYSES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DBS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-639	04-639	04-639	04-639	04-639	04-639	04-639	04-639	04-639	04-640
Date Sampled			08/15/83	11/26/84	04/03/85	07/09/85	11/01/85	01/09/86	04/04/86	07/14/86	10/21/86	01/22/87
Sampled By			SCD			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCD
Date Analyzed			08/17/83	12/05/84	04/04/85	07/12/85	11/13/85	01/17/86	04/09/86	07/23/86	10/23/86	01/28/87
Lab			RAS	RAS	RAS	RAS	BAC	SAC	SAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis												
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trimer-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	0.8	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCD = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	Primary MCL	WELL NUMBER										CM-641
					CM-640	CM-640	CM-640	CM-640	CM-640	CM-640	CM-640	CM-640	CM-640	CM-640	
Date Sampled					11/27/84	04/03/85	07/09/85	11/01/85	01/09/86	04/04/86	07/14/86	10/21/86	01/22/87	08/15/83	12/28/83
Sampled By							RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCED	SCED
Date Analyzed					12/05/84	04/05/85	07/12/85	11/13/85	10/17/86	04/10/86	07/23/86	10/23/86	01/28/87	08/17/83	01/06/84
Lab					RMS	RMS	RMS	BAC	SAC	SAC	SAC	SAC	SAC	RMS	RMS
Field Analysis															
Lab Analysis															
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			2.3	ND	ND	ND	ND	ND	0.13	ND	ND	ND	ND
Trichloroethene	3400	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LCO)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

SCED = Sacramento County Health Department

BAC = Brown & Caldwell

RMS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LCO = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYTES (EXTENDED 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Q1-641	Q1-641	Q1-641	Q1-641	Q1-641	Q1-641	Q1-641	Q1-641	Q1-641	Q1-642
Date Sampled			11/27/84	04/03/85	07/09/85	11/01/85	11/01/85	01/09/86	04/04/86	07/14/86	10/21/86	01/22/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/05/84	04/04/85	07/12/85	11/13/85	11/14/85	01/17/86	04/10/86	07/17/86	10/23/86	01/28/87
Lab			RMS	RMS	RMS	RMS	RMS	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS /#E 1g/l

NE = First laboratory duplicate analysis  
 ND = Second laboratory duplicate analysis  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCSH = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEVHD 8010 ANALYTES (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	WELL NUMBER									
	Action Level	Primary MCL	04-642	04-642	04-642	04-643	04-643	04-644	04-646	04-649	04-651	04-652
Date Sampled			12/28/83	01/17/86	01/17/86	08/12/83	04/09/85	01/17/86	08/16/83	08/16/83	08/16/83	08/16/83
Sampled By			SCHD	RADIANT	RADIANT	SCHD	RADIANT	SCHD	SCHD	SCHD	SCHD	SCHD
Date Analyzed			01/06/84	01/29/86	01/29/86	09/09/83	04/10/85	10/31/83	08/19/83	08/19/83	08/19/83	08/19/83
Lab			RAS	SAC	SAC	RAS	RAS	SAC	RAS	RAS	RAS	RAS
Field Analysis												
Lab Analysis				LDA	LDB							
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OM = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 RAS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	MO.	04-654	04-654	04-654	04-654	04-661	04-661	04-662	04-662	04-662	04-662
Date Sampled					11/29/79	08/19/83	04/10/86	04/14/86	11/02/84	03/21/85	11/19/79	11/01/83	08/16/84	11/02/84
Sampled by						SCHD	RADIANT	RADIANT				SCHD		RADIANT
Date Analyzed					08/26/83	RAS	SAC	SAC	11/18/84	03/26/85	ANLAB	11/14/83	08/29/84	11/18/84
Lab														
Field Analysis														
Lab Analysis							LDA	LDB						
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	NO	NO	NO	59.0	NO	NO	NO
1,2-Dichloroethane	1	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	1.4	NO
Bromodichloromethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloromethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
OW = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
SCHD = Sacramento County Health Department  
RAS = Radiant Analytical Services  
ANLAB = Anlab Analytical Lab  
SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			01-662	01-662	01-662	01-662	01-662	01-662	01-663	01-663	01-663	01-663
Date Sampled			11/06/85	11/06/85	01/09/86	04/07/86	10/27/86	01/21/87	12/05/83	12/04/84	04/08/85	07/10/85
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	SCED	RADIANT	RADIANT	RADIANT
Date Analyzed			11/19/85	11/19/85	01/17/86	04/12/86	10/28/86	01/26/87	12/12/83	12/10/84	04/10/85	07/12/85
Lab			BAC	BAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS
Field Analysis												
Lab Analysis			LDA	LDB								
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis

CH = Off base residential well

RADIANT = Radiant Corporation, Sacramento

SCED = Sacramento County Health Department

BAC = Brown & Caldwell

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



[illegible]

ALL RIGHTS ARE RESERVED

THE TEMPLAR CODE - NO

**RADIUM - Radium Corporation, Sacramento**

USAF - United States Air Force

- **GENERAL SERVICES ADMINISTRATION**
- **RADIUM ANALYTICAL SERVICES**

ANALAB = Analytical Lab

- RadLan Analytical Services, Sacramento

ND = Nothing detected

Page 1 of 1

100 = Limit of quantitation

ME = Not established  
 ME = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Well Number	CM-666	CM-666	CM-666	CM-667	CM-667	CM-667	CM-667
Date Sampled										
Sampled By										
Date Analyzed										
Lab										
Field Analysis										
Lab Analysis										
Chloroethane	NE	NE								
Bromoethane	NE	NE								
Vinyl chloride	2	1								
Chloroethene	NE	NE								
Methylene chloride	40	NE								
Trichloroethene	3400	NE								
1,1-Dichloroethane	6	7								
1,1-Dichloroethane	20	NE								
Total 1,2-Dichloroethane	16	NE								
Chloroform	100	100								
1,2-Dichloroethane	1	5								
1,1,1-Trichloroethane	200	200								
Carbon tetrachloride	5	5								
Bromochloroethane	100	100								
1,2-Dichloroethane	10	NE								
Trans-1,3-dichloropropene	NE	NE								
Trichloroethane	5	5								
Dibromochloroethane	100	100								
1,1,2-Trichloroethane	100	NE								
cis-1,3-Dichloropropene	87	NE								
2-Chloroethyl vinyl ether	NE	NE								
Benzene	100	100								
1,1,2,2-Tetrachloroethane	NE	NE								
Tetrachloroethane	4	NE								
Chlorobenzene	30	NE								
1,3-Dichlorobenzene	130	NE								
1,2-Dichlorobenzene	130	NE								
1,4-Dichlorobenzene	(LOQ)0.5	NE								
1,1,1,2-Tetrachloroethane	NE	NE								

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RMS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHID R010 ANALYTES (BEHIND 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	U.S. EPA	Q1-667	Q1-667	Q1-667	Q1-667	Q1-668	Q1-673	Q1-682	Q1-695	Q1-721	Q1-751
	Level	ML	ML	ML										
Date Sampled					04/07/86	07/16/86	10/13/86	01/21/87	11/03/83	11/12/85	11/03/83	11/15/79	02/27/80	11/29/79
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	SCH	RADIAN	SCH			
Date Analyzed					04/12/86	07/25/86	10/14/86	01/26/87	11/15/83	11/22/85	11/15/83			
Lab					SAC	SAC	SAC	SAC	RMS	BAC	RMS	ANLAB	CNL	ANLAB
Field Analysis														
Lab Analysis														
Chloromethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromomethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	25.2	NO	NO
1,2-Dichloroethane	1	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 CNL = California Analytical Labs  
 RAS = Radian Analytical Services  
 ANLAB = AnLab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METRO 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-751	04-760	04-808	04-810	04-810	04-810	04-810	04-810	04-810	04-810
Date Sampled			10/27/83	11/03/83	02/27/84	10/17/83	03/12/84	07/01/85	12/10/85	01/21/86	04/04/86	07/07/86
Sampled By			SCHD	SCHD	SCHD	DHS	DHS	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			11/02/83	11/15/83	03/07/84	10/31/83	03/17/84	07/03/85	04/04/85	02/03/86	04/09/86	07/10/86
Lab			RMS	RMS	RMS	RMS	RMS	RMS	RMS	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	2.7	2.6	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	0.8	1.7	NO	0.2	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = Off base residential well

DHS = California Department of Health Services  
 RADIANT = Radiant Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 RMS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	ITS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-810	04-810	04-812	04-813	04-813	04-813	04-813	04-813	04-813	04-813
Date Sampled			10/13/86	10/13/86	10/19/83	11/03/79	10/19/83	10/19/83	10/19/83	12/29/83	03/16/84	06/25/84
Sampled By			RADIAN	RADIAN			SCHD	SCHD	SCHD	RAS	RAS	RAS
Date Analyzed			10/14/86	10/14/86			11/01/83	11/01/83	11/01/83	01/09/84	03/30/84	07/03/84
Lab			SAC	SAC			RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis			FDA	FDA								
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
CW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
RAQCB = Regional Water Quality Control Board  
SCHD = Sacramento County Health Department  
RAS = Radian Analytical Services  
ANLAB = AnLab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER															
	DES	Primary	04-813	04-813	04-825	04-826	04-828	04-828	04-828	04-828	04-828	04-828	04-828	04-828	04-828	04-828	04-828	04-828
Date Sampled	07/12/85		11/13/85	01/16/86	03/22/84	02/27/84	02/27/84	02/27/84	04/10/85	11/13/85	01/16/86	10/27/86	01/19/87					
Sampled By	RAS		RADIAN	RADIAN	DES	DES	DES	DES	RAS	RADIAN	RADIAN	RADIAN	RADIAN					
Date Analyzed	07/17/85		11/24/85	01/29/86	04/04/84	03/07/84	03/07/84	03/07/84	04/15/85	11/24/85	01/29/86	10/28/86	01/21/87					
Lab	RAS		BAC	SAC	RAS	RAS	RAS	RAS	RAS	BAC	SAC	SAC	SAC					
Field Analysis																		
Lab Analysis																		
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	0.3	0.3	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	0.1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 GW = GEF base residential well

DES = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

[illegible]

ALL UNITS ARE U.S./1

FIDA = First field duplicate analysis  
 FIDB = Second field duplicate analysis  
 AL = Off base residential well

RADIANT = Radian Corporation, Sacramento  
 SCSHD = Sacramento County Health Department  
 SAS = Radian Analytical Services  
 ANALAB = Analab Analytical Lab  
 SASAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DTS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-868	04-868	04-868	04-869	04-869	04-869	04-869	04-869	04-869	04-869
Date Sampled			08/26/83	04/16/86	07/18/86	08/25/83	04/12/84	06/25/84	08/13/84	04/16/86	04/16/86	07/17/86
Sampled By			SCHD	RADIAN	RADIAN	SCHD	SCHD	RAS	RAS	RADIAN	RADIAN	RADIAN
Date Analyzed			08/25/83	04/22/86	07/22/86	09/02/83	04/13/84	07/03/84	08/20/84	04/22/86	04/22/86	07/18/86
Lab			RAS	SAC	SAC	RAS	RAS	RAS	RAS	SAC	SAC	SAC
Field Analysis				FTB	FTB					FTB	FTB	IDA
Lab Analysis												
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

RA = First field duplicate analysis  
 RA = Second field duplicate analysis  
 IDA = First Laboratory duplicate analysis  
 GW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 RAS = Radian Analytical Services  
 MHC = Air Force Lab at McClellan  
 SAC = Radian Analytical Services, Sacramento

ND = Not detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DOS Action Level	U.S. EPA Primary MCL	QA-869	QA-880	QA-885	QA-885	QA-885	QA-885	QA-885	QA-887	QA-887	QA-889
Date Sampled			07/17/86	10/23/86	11/02/83	11/06/85	01/10/86	01/10/86	01/24/86	11/01/83	11/15/83	11/01/83
Sampled by			RADIAN	RADIAN	SCH	RADIAN	RADIAN	RADIAN	RADIAN	SCH	RADIAN	SCH
Date Analyzed			07/22/86	10/27/86	11/14/83	11/19/85	01/18/86	01/13/86	02/06/86	11/14/83	11/25/83	11/14/83
Lab			SAC	SAC	RAS	BAC	SAC	SAC	SAC	RAS	BAC	RAS
Field Analysis					ANLAB							
Lab Analysis			LIB				LIB					
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

NE = Not established  
NA = Not analyzed  
LOQ = Limit of quantitation  
RAS = Radian Analytical Services  
ANLAB = Arslan Analytical Lab  
SAC = Sacramento County Health Department  
BAC = Boman & Caldwell  
SCH = Sacramento County Health Department

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	ML	04-889	04-889	04-889	04-889	04-889	04-889	04-889	04-889	04-892	04-892
Date Sampled					12/18/84	09/27/85	11/06/85	01/14/86	04/10/86	04/10/86	07/14/86	10/21/86	01/21/87	03/19/84
Sampled By					USAF	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCHD	SCHD
Date Analyzed					12/21/84	10/22/85	11/19/85	01/23/86	04/14/86	04/14/86	07/23/86	10/23/86	01/27/87	04/02/84
Lab					ANLAB	ANLAB	BAC	SAC	SAC	SAC	SAC	SAC	SAC	RAS
Field Analysis														
Lab Analysis									LDA	LDB				
Chloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	100		NO		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5		NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 USAF = United States Air Force  
 BAC = Beeson & Caldwell  
 RAS = Radian Analytical Services  
 ANLAB = AnLab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS (REVISED 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Level	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892	CH-892
Date Sampled			06/21/84	08/08/84	11/19/84	04/02/85	07/09/85	09/26/85	11/04/85	01/10/86	04/07/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86
Sampled By			RAS	RAS	RAS	RAS	RAS	USAF	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			06/29/84	08/14/84	11/28/84	04/04/85	07/11/85	10/17/85	11/15/85	01/19/86	04/12/86	07/23/86	07/23/86	07/23/86	07/23/86	07/23/86	07/23/86	07/23/86
Lab			RAS	RAS	RAS	RAS	RAS	ANLAB	BSC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis																		
Lab Analysis																		
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	3.6	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LN = First laboratory duplicate analysis  
 LB = Second laboratory duplicate analysis  
 CM = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 USAP = United States Air Force  
 BSC = Brown & Caldwell  
 RAS = Radiant Analytical Services  
 ANLAB = AnLab Analytical Lab  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-892	04-892	04-893	04-893	04-893	04-893	04-893	04-893	04-893	04-893
Date Sampled			10/21/86	01/21/87	11/19/84	04/02/85	07/10/85	09/26/85	11/01/85	04/07/86	07/14/86	10/21/86
Sampled By			RADIAN	RADIAN		RADIAN	RADIAN	USAF	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/23/86	01/26/87	11/28/84	04/04/85	07/12/85	10/17/85	11/13/85	04/12/86	07/23/86	10/23/86
Lab			SAC	SAC	RAS	RAS	RAS	ANLAB	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-Dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	(LC)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 ND = QEE base residential well  
 NA = Nothing detected  
 NE = Not analyzed  
 LIQ = Limit of quantitation  
 RAS = Radian Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radian Analytical Services, Sacramento

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority	WELL NUMBER									
			QA-893	QA-894	QA-894	QA-894	QA-894	QA-894	QA-894	QA-894	QA-894	QA-894
Date Sampled			01/21/87	11/19/84	04/02/85	07/09/85	07/09/85	11/01/85	01/14/86	01/14/86	04/07/86	07/14/86
Sampled by			RADIAN			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/27/87	11/28/84	04/04/85	07/11/85	07/11/85	11/13/85	01/23/86	01/23/86	04/12/86	07/23/86
Lab			SAC	RAS	RAS	RAS	RAS	BAC	SAC	SAC	SAC	SAC
Field Analysis						FDA	FEB	FEB	LDA	LDB		
Lab Analysis												
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

RA = First field duplicate analysis  
 RB = Second field duplicate analysis  
 LCQ = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LCQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	DEF: Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-89A	04-89A	04-89A	04-89A	04-89A	04-89A	04-89A	04-89A	04-89A	04-89A
Date Sampled			10/21/86	01/22/87	06/28/84	11/19/84	12/18/84	04/02/85	07/09/85	11/01/85	01/10/86	04/07/86
Sampled By			RADIAN	RADIAN					RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/23/86	01/27/87	07/06/84	12/04/84	12/21/84	04/05/85	07/11/85	11/13/85	01/18/86	04/11/86
Lab			SAC	SAC	RMS	RMS		RMS	RMS	BAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyethyl ethyl	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
GM = GCE base residential well

RADIAN = Radian Corporation, Sacramento  
BAC = Brown & Caldwell  
RMS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYTES OBTAINED 601 PRIOR TO OCTOBER 1983

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			CH-895	CH-895	CH-895	CH-895	CH-895	CH-895	CH-895	CH-895	CH-895	CH-895
Date Sampled			10/21/86	01/22/87	10/17/83	12/28/83	03/19/84	06/21/84	08/08/84	11/19/84	04/02/85	07/10/85
Sampled By			RADIANT	RADIANT	SCED	SCED	SCED	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			10/23/86	01/27/87	10/28/83	01/06/84	04/02/84	06/29/84	08/14/84	12/04/84	04/05/85	07/12/85
Lab			SAC	SAC	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichloroethane	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CH = Off base residential wall

RADIANT = Radiant Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 RAS = Brown & Caldwell  
 RAS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantization  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary	WELL NUMBER									
			QA-896	QA-896	QA-896	QA-896	QA-896	QA-896	QA-897	QA-897	QA-897	QA-897
Date Sampled			01/10/86	04/07/86	04/07/86	07/14/86	10/21/86	01/22/87	11/19/84	01/20/86	04/07/86	07/14/86
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			01/18/86	04/12/86	04/12/86	07/23/86	10/23/86	01/27/87	12/04/84	01/30/86	04/12/86	07/23/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	RMS	SAC	SAC	SAC
Field Analysis				LDA	LDB							
Lab Analysis												
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethers	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethers	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethers	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethers	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	67	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethers	4	NE	0.9	0.8	0.9	1.1	0.99C	0.54C				
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethers	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 CM = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 RMS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			01-597	01-598	01-598	01-598	01-598	01-598	01-598	01-598	01-598	01-598
Date Sampled			01/22/87	11/19/84	04/02/85	07/09/85	11/01/85	01/10/86	04/04/86	07/14/86	10/21/86	01/22/87
Sampled By			RADIUM			RADIUM	RADIUM	RADIUM	RADIUM	RADIUM	RADIUM	RADIUM
Date Analyzed			01/21/87	12/04/84	04/05/85	07/11/85	11/13/85	01/18/86	04/10/86	07/23/86	10/23/86	01/27/87
Lab			SAC	RAS	RAS	RAS	BAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
 LTB = Second Laboratory duplicate analysis  
 CW = Off base residential well

RADIUM = Radian Corporation, Sacramento  
 BAC = Rosen & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established

[illegible]

**ALL UNITS ARE 1/1**

FW = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
BSC = Brown & Caldwell  
RAS = Radiant Analytical Services  
SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	CM-899	CM-900	CM-900	CM-900	CM-900	CM-901	CM-902	CM-902	CM-902	CM-902
Date Sampled			01/22/87	08/12/83	03/19/84	06/21/84	08/08/84	11/19/84	10/25/83	03/19/84	06/21/84	08/08/84
Sampled By			RADIAN	SCHD	SCHD	SCHD	SCHD	SCHD	SCHD	SCHD	SCHD	SCHD
Date Analyzed			01/28/87	09/09/83	04/02/84	06/29/84	08/14/84	12/04/84	11/02/83	04/02/84	06/29/84	08/14/84
Lab			SAC	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
Field Analysis			FTB									
Lab Analysis			LTB									
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	0.3	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloro-2-vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FTB = Second field duplicate analysis  
 LTB = Second laboratory duplicate analysis  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYSES PERIOD 601 PRIOR TO OCTOBER 1988

Parameter	DBS	U.S. EPA	Action	Priority	MCL	WELL NUMBER									
						CM-902	CM-902	CM-903	CM-903	CM-903	CM-903	CM-903	CM-903	CM-903	CM-903
Date Sampled						11/21/84	11/12/85	06/20/83	03/22/84	06/21/84	08/08/84	11/21/84	07/10/85	09/26/85	11/04/85
Sampled By							RADIANT		SCH				RADIANT	USAF	RADIANT
Lab						12/05/84	11/22/85		04/04/84	06/29/84	08/14/84	12/04/84	07/12/85	10/17/85	11/14/85
Field Analysis						RMS	BGC	RMS	RMS	RMS	RMS	RMS	RMS	ANLAB	BGC
Lab Analysis															SAC
Chloroethane	NE					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	NE					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethylene	3400					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	16					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	100					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	1					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	5					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200					0.3	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4					0.2	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	30					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichloroethane	130					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	130					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichloroethane	(LD)0.5					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE					NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
CM = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
SCHD = Sacramento County Health Department  
USAF = United States Air Force  
BGC = Brown & Caldwell  
RMS = Radiant Analytical Services  
ANLAB = Anlab Analytical Lab  
SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEATED SOIL ANALYTES PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	THS Action Level	U.S. EPA Primary MCL	CH-903	CH-903	CH-904	CH-904	CH-904	CH-904	CH-904	CH-904	CH-904
Date Sampled			04/15/86	04/15/86	08/12/83	03/22/84	06/21/84	08/08/84	11/21/84	07/10/85	01/14/86
Sampled By			RAULAN	RAULAN	SEED	SEED	RMS	RMS	RMS	USAF	RAULAN
Date Analyzed			04/15/86	04/15/86	09/09/83	04/04/84	06/29/84	08/14/84	12/04/84	10/17/85	01/23/86
Lab			SAC	SAC	RMS	RMS	RMS	RMS	RMS	ANLAB	SAC
Field Analysis			FIA	FIA							
Lab Analysis											
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	0.4	0.4	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloropropane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	0.5	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloropropane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FIA = First field duplicate analysis  
FIB = Second field duplicate analysis  
GM = Off base residential well

RAULAN = Radian Corporation, Sacramento  
SEED = Sacramento County Health Department  
USAF = United States Air Force  
BAC = Benson & Caldwell  
RMS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
MCC = Air Force Lab at McClellan  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	MCL	04-904	04-905	04-905	04-905	04-905	04-905	04-905	04-905	04-905	04-905
Date Sampled					04/16/86	07/22/83	03/16/84	06/06/84	08/13/84	11/01/84	04/08/85	07/08/85	11/05/85	02/07/86
Sampled By					RADIAN	SCD	SCD				RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					04/22/86	07/27/83	03/30/84	06/13/84	08/24/84	11/12/84	04/10/85	07/11/85	11/17/85	02/11/86
Lab					SAC	CAL	RAS	RAS	RAS	RAS	RAS	RAS	BAC	SAC
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	0.3	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	0.4	0.6	NO	NO	NO	NO	0.1
1,2-Dichloroethane	1	5			NO	NO	NO	0.1	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200			NO	NO	NO	0.1	NO	NO	2.3	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			NO	NO	1.2	NO	NO	NO	1.7	NO	NO	NO
Dibromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCD = Sacramento County Health Department  
 BAC = Rosen & Caldwell  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHIO 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906	QA-906
Action	Level	NCL														
Date Sampled			10/27/83	03/16/84	06/06/84	08/13/84	11/02/84	03/12/85	07/08/85	11/05/85	11/05/85	11/05/85	02/07/86	10/30/86		
Sampled By			SEED	SEED					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT		
Date Analyzed			11/02/83	03/30/84	06/14/84	08/24/84	11/17/84	03/14/85	07/11/85	11/17/85	11/17/85	11/17/85	02/11/86	11/03/86		
Lab			RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	SAC	SAC		
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	0.3	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	0.3	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LUD) 0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

DES = Fluor. field duplicate analysis  
 U.S. EPA = Fluor. laboratory duplicate analysis  
 Primary = Second laboratory duplicate analysis  
 Action Level = QEF base residential well

RADIANT = Radiant Corporation, Sacramento  
 SEED = Sacramento County Health Department  
 RMS = Brown & Caldwell  
 RMS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED F.P. METHOD 8010 ANALYTICS (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS		U.S. EPA		WELL NUMBER									
	Action	Priority	Level	MCL	04-906	04-907	04-907	04-907	04-908	04-908	04-908	04-908	04-908	04-908
Date Sampled					10/30/86	11/09/79	11/19/79	1/29/80	04/15/80	09/12/80	01/19/81	01/19/81	04/27/83	06/11/83
Sampled By					RADIANT									SCHD
Date Analyzed					11/03/86									08/17/83
Lab					SAC	ANLAB	ANLAB		ANLAB	CAL	CAL	CAL	RAS	RAS
Field Analysis					FTB									
Lab Analysis														
Chloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	0.3
Trichloroethene	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NE		NO	NO	NO	4.0	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE			NO	NO	NO	4.0	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	0.8	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NE		NO	NO	NO	65	NO	NO	NO	NO	NO	1.0
1,1,1-Trichloroethene	200	200	NE		NO	NO	NO	4.0	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,2-Dichloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NE		NO	NO	NO	8.4	NO	NO	NO	NO	NO	1.5
Dibromochloroethene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,2-Dichloroethene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyethyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FTB = Second field duplicate analysis

CM = Off base residential well

RADIANT = Radiant Corporation, Sacramento

SCHD = Sacramento County Health Department

CAL = California Analytical Labs

RAS = Radiant Analytical Services

ANLAB = Anlab Analytical Lab

SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			04-908	04-908	04-908	04-908	04-908	04-908	04-908	04-908	04-908	04-909
Date Sampled			09/28/83	12/06/83	03/06/84	03/23/84	03/23/84	03/23/84	03/26/84	06/06/84	08/13/84	02/07/86
Sampled By			SCD		RAQCB							04/14/86
Date Analyzed			09/29/83	12/10/83	03/16/84	03/23/84	03/23/84	03/26/84	03/27/84	06/15/84	08/27/84	02/11/86
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	SAC
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	0.2	ND	0.6	ND	ND	ND	ND	ND	ND	9.1
Trichloroethene	3400	NE	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	7	NE	ND	ND	ND	0.3	ND	0.1	ND	ND	ND	0.1
Total 1,2-Dichloroethene	20	NE	ND	ND	ND	0.1	ND	ND	ND	ND	ND	ND
Chloroform	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	1	5	ND	ND	0.6	1.9	ND	0.9	ND	ND	ND	0.3
Carbon tetrachloride	200	200	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethene	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	NE	0.8	1.7	0.9	ND	ND	1.4	1.3	ND	ND	1.3
1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

RA = First field duplicate analysis  
 RB = Second field duplicate analysis  
 CR = Off base residential well

RAQCB = Radian Corporation, Sacramento  
 SCD = Regional Water Quality Control Board  
 RAS = Sacramento County Health Department  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantization  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	04-909	04-909	04-909	04-909	04-909	04-909	04-909	04-909	04-910	04-910
	Level	MCL										
Date Sampled			03/06/84	06/06/84	08/13/84	11/01/84	03/12/85	07/08/85	11/05/85	02/07/86	10/27/86	06/06/84
Sampled By			SEED					RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			03/16/84	06/14/84	08/24/84	11/12/84	03/18/85	07/11/85	11/17/85	02/11/86	10/28/86	06/14/84
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	0.1	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.3
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 CH = Off base residential well  
 RADIAN = Radian Corporation, Sacramento  
 SOED = Sacramento County Health Department  
 RAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	TES	U.S. EPA	Primary	04-910	04-910	04-910	04-910	04-910	04-910	04-910	04-910	04-910	04-910
	Action	ML											
Date Sampled	NE			08/13/84	11/01/84	03/12/85	04/09/85	07/08/85	07/11/85	08/05/85	11/11/85	11/11/85	01/23/86
Sampled By	NE												
Date Analyzed	2	1											
Lab	NE												
Field Analysis	NE												
Lab Analysis	NE												
Chloroethane	NE												
Bromoethane	NE												
Vinyl chloride	2	1											
Chloroethane	NE												
Methylene chloride	40	NE											
Trichloroethane	3400	NE											
1,1-Dichloroethane	6	7											
1,1-Dichloroethane	20	NE											
Total 1,2-Dichloroethane	16	NE											
Chloroform	100	100											
1,2-Dichloroethane	1	5											
1,1,1-Trichloroethane	200	200											
Carbon tetrachloride	5	5											
Bromochloroethane	100	100											
1,2-Dichloroethane	10	NE											
Trichloroethane	5	5											
Trichloroethane	100	100											
1,1,2-Trichloroethane	100	NE											
1,1,2-Trichloroethane	87	NE											
2-Chloroethyl vinyl ether	NE												
Bromobenzene	100	100											
1,1,2,2-Tetrachloroethane	NE	NE											
1,1,2,2-Tetrachloroethane	4	NE											
1,3-Dichlorobenzene	130	NE											
1,2-Dichlorobenzene	130	NE											
1,4-Dichlorobenzene	(100)0.5	NE											
1,1,1,2-Tetrachloroethane	NE	NE											

ALL UNITS ARE ug/l

NE = First field duplicate analysis  
 NE = Second field duplicate analysis  
 NE = First laboratory duplicate analysis  
 NE = Second laboratory duplicate analysis  
 NE = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NE = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Arden	Primary	ML	Q4-910	Q4-910	Q4-911	Q4-911	Q4-911	Q4-911	Q4-911	Q4-911	Q4-911	Q4-911
Date Sampled						10/29/86	10/29/86	06/30/83	07/21/83	12/28/83	03/09/84	06/06/84	08/13/84	11/01/84	03/12/85
Sampled By						RADIAN	RADIAN		SCED	SCED	SCED	RAS	RAS	RAS	RADIAN
Date Analyzed						10/31/86	10/31/86		07/28/83	01/06/84	03/15/84	06/14/84	08/28/84	11/12/84	03/18/85
Lab						SAC	SAC		CAL	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis						FDA	FDA								
Lab Analysis															
Chloroethane	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	0.2	0.5	NO	NO
1,2-Dichloroethane	1	5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	97	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			CM-911	CM-911	CM-911	CM-911	CM-913	CM-913	CM-913	CM-913	CM-913	CM-913
Date Sampled			11/11/85	01/23/86	07/16/86	10/13/86	11/19/79	06/20/83	07/31/83	07/31/83	12/29/83	03/06/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN					SCD	RACB
Date Analyzed			11/22/85	02/05/86	07/25/86	10/14/86			08/17/83	08/17/83	01/09/84	03/16/84
Lab			BAC	SAC	SAC	SAC	ANLAB	RAS	RAS	RAS	RAS	RAS
Field Analysis									FDA			
Lab Analysis												
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	0.1	0.3	0.3	0.3	NO	NO	42	NO	137	71.8
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	1.1	2.6
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	5.0	42	NO	0.9	2.2
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	3.8	NO	NO	0.3	0.9
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	3.5	4.0
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	11	NO	NO	16.1	23.1
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
GW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
RACB = Regional Water Quality Control Board  
SCD = Sacramento County Health Department  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
ANLAB = Arlab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LCQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			04-914	04-914	04-914	04-914	04-914	04-914	04-914	04-914	04-914	04-914
Date Sampled			06/30/83	12/28/83	03/09/84	06/06/84	07/03/84	08/13/84	11/01/84	03/21/85	07/08/85	01/23/86
Sampled By			SCHD	SCHD	SCHD	RMS	RMS	RMS	RMS	RMS	RAS	RADIAN
Date Analyzed			01/05/84	01/05/84	03/15/84	06/15/84	07/06/84	08/24/84	11/12/84	03/25/85	07/10/85	02/05/86
Lab			RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RAS	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	1.52	NO
1,1-Dichloroethene	6	7	NO	NO	NO	0.1	NO	NO	NO	NO	NO	0.14
1,1-Dichloroethane	20	NE	NO	NO	NO	0.1	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	0.4	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = OFF base residential well

RADIAN = Radian Corporation, Sacramento  
SCHD = Sacramento County Health Department  
RMS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	WELL NUMBER									
				04-914	04-914	04-914	04-915	04-915	04-916	04-916	04-916	04-916	04-916
Date Sampled				07/17/86	10/13/86	10/13/86	06/30/83	11/11/85	11/11/85	06/30/83	07/31/83	09/28/83	12/29/83
Sampled By				RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed				07/17/86	10/13/86	10/13/86	06/30/83	11/11/85	11/11/85	06/30/83	07/31/83	09/28/83	12/29/83
Lab				USAF	SAC	SAC	SAC	BAC	BAC	SAC	RAS	RAS	RAS
Field Analysis													
Lab Analysis				LDA	LDA	LDB							
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LQ)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CH = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SCHED = Sacramento County Health Department  
 USAF = United States Air Force  
 BAC = Brown & Caldwell  
 RAS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			QA-91.6	QA-91.7	QA-91.7	QA-91.7	QA-91.7	QA-91.7	QA-91.7	QA-91.7	QA-91.7	
Date Sampled			06/06/84	07/21/83	07/31/83	12/29/83	03/06/84	06/06/84	08/01/84	11/02/84	03/12/85	07/11/85
Sampled By						SCHD	SCHD					RAJIAN
Date Analyzed			06/15/84	07/27/83	08/17/83	01/07/84	03/16/84	06/15/84	08/28/84	11/11/84	03/18/85	07/16/85
Lab			RAS	CAL	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis												PTA
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	6	7	4.3	100	59	146	101	149	133	ND	174	189
1,1,2-Trichloroethane	20	NE	ND	4.6	3.0	4.3	3.2	3.6	6.1	ND	ND	15.1
1,1,1,2-Tetrachloroethane	16	NE	ND	5.0	2.3	3.9	2.6	2.7	6.0	15	ND	11.9
Total 1,2-Dichloroethane	100	100	1.6	ND	ND	ND	ND	0.8	1.0	18	2.2	1.92
Chloroform												
1,1,2-Dichloroethane	1	5	ND	1.0	1.6	1.2	1.0	0.9	1.8	24	5.0	7.70
1,1,1,1-Tetrachloroethane	200	200	0.2	3.4	2.3	4.5	3.4	3.6	5.7	ND	6.9	10.5
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	1.0	12	8.5	23.5	16.3	21.1	23.6	32	52.1	50.0
1,1,1,2-Tetrachloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,1,2-Pentachloroethane	100	NE	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND
1,1,1,2,3-Pentachloroethane	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2,2-Pentachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2,2,2-Hexachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,1,2-Pentachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**ALL UNITS ARE US/1**

FD = First field duplicate analysis  
MD = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 CAL = California Analytical Labs  
 RAS = Radiant Analytical Services

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			CM-917	CM-918	CM-918	CM-918	CM-918	CM-918	CM-918	CM-918	CM-918	CM-918
Date Sampled			07/11/85	06/30/83	01/20/84	03/06/84	03/26/84	06/06/84	07/03/84	08/13/84	11/03/84	03/22/85
Sampled By			RADIANT		SCHD	SCHD	SCHD	RAS	RAS	RAS	RAS	RADIANT
Date Analyzed			07/16/85		01/31/84	03/16/84	04/04/84	06/18/84	07/06/84	08/28/84	11/16/84	03/25/85
Lab			RAS		RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis			FTB									
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	0.7	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	0.5	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	181	NO	NO	0.2	NO	0.9	1.0	NO	NO	3.2
1,1-Dichloroethane	20	NE	15.0	NO	NO	NO	NO	NO	0.1	NO	NO	5.84
Total 1,2-Dichloroethane	16	NE	12.1	NO	NO	NO	NO	NO	NO	NO	NO	2.01
Chloroform	100	100	1.66	NO	NO	NO	NO	0.3	0.1	0.5	NO	NO
1,2-Dichloroethane	1	5	8.07	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	10.2	NO	NO	NO	NO	NO	NO	NO	NO	1.6
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	55.2	NO	NO	NO	NO	NO	0.2	1.0	NO	1.6
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	2.05
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FTB = Second field duplicate analysis  
CM = Off base residential well

RADIANT = Radian Corporation, Sacramento  
SCHD = Sacramento County Health Department  
RAS = Radian Analytical Services

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (METHID 601 PRIOR TO OCTOBER 1988)

Parameter	EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Priority	ML	ML	04-918	04-918	04-918	04-918	04-918	04-918	04-918	04-918	04-918	04-918	04-918	04-918
Date Sampled					11/11/85	11/11/85	01/08/86	07/17/86	07/17/86	10/13/86	08/15/83	01/05/84	01/23/84	03/06/84	06/06/84	
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCH	SCH	SCH	SCH	SCH	
Date Analyzed					11/20/85	11/23/85	01/14/86	07/18/86	07/18/86	10/14/86	08/17/83	01/11/84	01/24/84	03/16/84	06/18/84	
Lab					ONL	BAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS	RAS	
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	10.7	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7			11.0	11.0	11	7.9	5.1	6.9C	12	10.4	8.3	9.9	8.8	8.8
1,1-Dichloroethane	20	NE			0.8	0.8	0.8	0.7	0.5	0.59C	0.2	0.6	0.6	0.4	0.8	0.8
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	0.34	NO	0.20C	NO	NO	NO	0.2	NO	0.8
Chloroform	100	100			NO	NO	NO	0.2	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5			NO	NO	0.1	NO	NO	NO	NO	0.4	0.5	0.3	0.4	0.4
1,1,1-Trichloroethane	200	200			NO	NO	0.4	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			0.9	2.2	2.4	2.4	1.3	2.4C	1.8	1.7	1.4	1.4	1.6	1.6
Dibromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofluor	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
ON = OFF base residential well

RADIAN = Radian Corporation, Sacramento  
SCHD = Sacramento County Health Department  
USAF = United States Air Force  
BAC = Brown & Caldwell  
ONL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (PERIOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Priority	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919	Q4-919
Dece Sampled			08/13/84	11/01/84	11/11/85	11/11/85	07/16/86	06/30/83	03/09/84	06/06/84	07/03/84	08/13/84	11/01/84			
Sampled By					RADIAN	RADIAN	RADIAN		SCED							
Dece Analyzed			08/24/84	11/16/84	11/20/85	11/22/85	07/25/86		RAS	06/18/84	07/06/84	08/22/84	11/17/84			
Lab			RAS	RAS	CAL	B&C	SAC		RAS	RAS	RAS	RAS	RAS			
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	15.0	NO	37.0	21.0	25	NO	NO	0.3	0.3	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	1.3	NO	2.1	NO	1.4	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	0.5	NO	1.1	NO	0.79	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	1.6	NO	NO	0.31	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	0.2	NO	NO	0.2	0.60	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	0.4	NO	NO	0.5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	1.8	2.3	2.9	2.9	5.0	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

SCED = Sacramento County Health Department

B&C = Bowen & Caldwell

CAL = California Analytical Labs

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-920	04-920	04-920	04-920	04-920	04-920	04-920	04-921	04-921	04-921
Date Sampled			03/12/85	07/08/85	07/08/85	07/10/85	11/11/85	11/11/85	04/15/86	08/15/83	09/29/83	12/29/83
Sampled By			RAS	RADIAN	RADIAN	RAS	RADIAN	RADIAN	RADIAN	SCED	SCED	SCED
Date Analyzed			03/14/85	07/10/85	07/10/85	07/10/85	11/20/85	11/22/85	04/22/86	08/18/83	09/29/83	01/07/84
Lab			RAS	RAS	RAS	RAS	ONL	BGC	SAC	RAS	RAS	RAS
Field Analysis				FDA					FDA			
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	2.3	4.45	6.13	7.0	5.1	2.2	4.7	3.2	2.8	3.7
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	3.55	2.08	ND	0.9	0.7	0.9	ND	0.4	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

ON = Off base residential well

RADIAN = Radian Corporation, Sacramento

SCED = Sacramento County Health Department

BGC = Brown &amp; Caldwell

ONL = California Analytical Labs

RAS = Radian Analytical Services

HAC = Air Force Lab at McEllan

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	Primary MCL	WELL NUMBER											
					03/09/84	03/16/84	06/06/84	08/13/84	07/09/85	11/11/85	11/11/85	11/22/85	02/05/86	04/15/86	04/22/86	08/15/86
Date Sampled					SCED				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCED
Sampled By																
Date Analyzed																
Lab					RAS		RAS	RAS	RAS	ANLAB	CAL	BAC	SAC	SAC	FEA	RAS
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	1	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	200	200			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FEA = First field duplicate analysis

FEA = Second field duplicate analysis

CH = OFF base residential well

RADIAN = Radian Corporation, Sacramento

SCED = Sacramento County Health Department

BAC = Brown & Caldwell

CAL = California Analytical Labs

RAS = Radian Analytical Services

ANLAB = Anlab Analytical Lab

FEA = Air Force Lab at McClellan

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-922	04-922	04-922	04-922	04-922	04-922	04-922	04-923	04-923	04-923
Date Sampled			09/28/83	12/28/83	03/09/84	06/06/84	08/13/84	09/28/84	11/02/84	07/08/85	08/15/85	12/28/85
Sampled By			SCHD	SCHD	SCHD	RAS	RAS	RAS	RAS	RADIUN	SCHD	SCHD
Date Analyzed			09/29/83	01/06/84	03/16/84	06/18/84	08/24/84	10/16/84	11/17/84	07/11/85	06/17/85	01/06/86
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis												
Lab Analysis												
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	0.1	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	6	7	NO	NO	NO	NO	0.1	NO	NO	NO	NO	NO
1,1-Dichloroethers	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethers	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.2
1,2-Dichloroethers	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethers	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethers	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethers	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethers	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethers	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

 ALL UNITS ARE ug/l  
 GW = Off base residential well

 RADIUN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 RAS = Radian Analytical Services  
 NO = Nothing detected  
 NA = Not analyzed  
 100 = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-923	04-923	04-923	04-923	04-923	04-923	04-923	04-924	04-924	04-924
Date Sampled			08/13/84	11/02/84	07/08/85	08/07/85	11/11/85	01/20/86	04/16/86	08/16/84	07/12/85	01/23/86
Sampled By					RADIAN		RADIAN	RADIAN	RADIAN		RADIAN	RADIAN
Date Analyzed			08/23/84	11/17/84	07/10/85	08/08/85	11/25/85	01/30/86	04/22/86	08/29/84	07/16/85	02/05/86
Lab			RAS	RAS	RAS	RAS	BAC	SAC	PTA	RAS	RAS	SAC
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	2.28	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	3.58	3.50	3.9	4.6	1.6	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	2.95	1.80	NO	0.2	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	1.91	1.27	NO	1.3	0.4	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.1
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FOA = First field duplicate analysis  
 FFB = Second field duplicate analysis  
 OM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 MAC = Air Force Lab at McClellan  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1986)

Parameter	IES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				04-92A	04-92A	04-92A	04-92A	04-92A	04-92A	04-92A	04-92A	04-92A	04-92A
Date Sampled				04/10/86	07/07/86	10/28/86	10/28/86	10/28/86	10/28/86	01/21/87	01/21/87	01/21/87	01/08/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				04/14/86	07/10/86	11/13/86	10/29/86	10/29/86	10/29/86	01/27/87	01/27/87	01/27/87	01/14/86
Lab				SAC	SAC	ELI	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDA	FDA	FDA	FDA	FDA	
Lab Analysis													
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDH = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 GW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHID 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority	WELL NUMBER									
			04-925	04-925	04-925	04-925	04-925	04-925	04-927	04-927	04-927	04-928
Date Sampled			04/07/86	07/11/86	10/27/86	10/27/86	10/27/86	01/21/87	11/02/83	11/08/85	01/08/86	04/07/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	SCHD	RADIAN	RADIAN	RADIAN
Date Analyzed			04/12/86	07/15/86	10/28/86	10/28/86	01/27/87	11/14/83	11/19/85	01/14/86	04/12/86	08/22/84
Lab			SAC	SAC	SAC	SAC	SAC	RAS	BAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis					LDA	LDA	LDB					
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	1.0
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
OW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SCHD = Sacramento County Health Department  
BAC = Rosen & Caldwell  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYL 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Priority	ML	ML	04-928	04-928	04-928	04-930	04-930	04-930	04-932	04-932	04-933	04-933
Date Sampled					01/08/86	01/08/86	04/07/86	06/28/84	04/09/85	11/08/85	01/08/86	08/08/84	11/08/85	11/08/85
Sampled by					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					01/14/86	01/14/86	04/12/86	07/06/84	04/10/85	11/19/85	01/14/86	08/14/84	11/19/85	11/19/85
Lab					SAC	SAC	SAC	RAS	RAS	BAC	SAC	RAS	BAC	RAS
Field Analysis														
Lab Analysis					LDA	LDB								
Chloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100			NO	NO	NO	5.2	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5			NO	NO	NO	NO	NO	NO	NO	0.4	NO	NO
1,1,1-Trichloroethane	200	200			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100			NO	NO	NO	1.2	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetra-1,3-dichloropropene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100			NO	NO	NO	1.3	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100			NO	NO	NO	2.0	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 BAC = Brown & Caldwell  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority	WELL NUMBER									
			04-933	04-933	04-935	04-935	04-937	04-937	04-937	04-938	04-938	04-938
Date Sampled			12/30/85	02/07/86	11/29/79	12/18/79	09/27/85	11/11/85	10/27/83	09/26/85	11/08/85	09/26/85
Sampled By			USAF	RADIANT			USAF	RADIANT	SCED	USAF	RADIANT	USAF
Date Analyzed				02/10/86			10/22/85	11/22/85	11/04/83	10/17/85	11/20/85	10/17/85
Lab			ANLAB	SAC	ANLAB	ANLAB	ANLAB	BSC	RAS	ANLAB	BSC	ANLAB
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethene	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethene	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CH = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 USAF = United States Air Force  
 BSC = Brown & Caldwell  
 RAS = Radiant Analytical Services  
 ANLAB = Anlab Analytical Lab  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	Level	ML	Q1-938	Q1-939	Q1-941	Q1-942	Q1-942	Q1-942	Q1-942	Q1-942
Date Sampled						11/08/85	08/17/83	04/10/86	08/16/83	07/16/86	07/16/86	11/03/79	08/16/83
Sampled By						RADIAN		RADIAN		RADIAN	RADIAN		
Date Analyzed						11/19/85	08/23/83	04/14/86	08/19/83	07/25/86	07/25/86		11/01/83
Lab						BAC	RAS	SAC	RAS	SAC	SAC	ANLAB	RAS
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1				ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE				ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE				ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7				ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE				ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE				ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100				ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5				ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200				ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5				ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethane	100	100				ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE				ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5				ND	ND	ND	ND	ND	ND	ND	ND
Dibromodichloroethane	100	100				ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE				ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE				ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND
Benzene	100	100				ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE				ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE				ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE				ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE				ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
ANLAB = Anlab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Preliminary MCL	WELL NUMBER									
			04-945	04-945	04-945	04-946	04-946	04-947	04-947	04-948	04-948	04-948
Date Sampled			08/16/83	07/16/86	01/30/87	08/16/83	10/28/86	01/23/87	08/17/83	04/01/86	08/16/83	11/12/85
Sampled by			SCED	RADIAN	RADIAN	SCED	RADIAN	RADIAN	RADIAN	USAF	SCED	RADIAN
Date Analyzed			08/19/83	07/25/86	02/02/87	08/19/83	10/29/86	01/29/87	08/23/83	04/23/86	08/19/83	11/22/85
Lab			RAS	SAC	SAC	RAS	SAC	SAC	RAS	SAC	RAS	ANLAB
Field Analysis												
Lab Analysis												
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SCED = Sacramento County Health Department  
USAF = United States Air Force  
BAC = Brown & Caldwell  
RAS = Radian Analytical Services  
ANLAB = AnLab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8010 ANALYTES (METHED 601 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			CH-948	CH-951	CH-951	CH-951	CH-954	CH-954	CH-954	CH-954	CH-954	CH-956
Date Sampled			01/09/86	08/16/83	04/09/85	07/17/86	08/17/83	08/18/83	10/28/86	01/30/87	01/30/87	08/18/83
Sampled By			RADIANT			RADIANT		SCED	RADIANT	RADIANT	RADIANT	SCED
Date Analyzed			10/17/86	08/19/83	04/10/85	07/18/86	08/23/83	08/24/83	10/29/86	02/02/87	02/02/87	08/24/83
Lab			SAC	RAS	RAS	SAC	RAS	RAS	SAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis												
Chloroethane	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40		3.4	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS /#E ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 GW = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SCED = Sacramento County Health Department  
 RAS = Radiant Analytical Services  
 SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LDQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			04-957	04-958	04-960	04-962	04-963	04-967	04-968	04-969	04-970	04-971	04-972
Date Sampled			08/18/83	08/18/83	08/19/83	08/19/83	08/17/83	08/18/83	08/18/83	08/18/83	08/18/83	08/18/83	08/19/83
Sampled By			SCED	SCED	SCED	SCED	SCED	SCED	SCED	SCED	SCED	SCED	SCED
Date Analyzed			08/24/83	08/24/83	08/24/83	08/23/83	08/23/83	08/25/83	08/25/83	08/24/83	08/25/83	08/25/83	08/24/83
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropene	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
CM = Off base residential well

SCED = Sacramento County Health Department  
RAS = Radian Analytical Services  
NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Level	Primary	MCL	Q4-973	Q4-974	Q4-994	Q4-998	Q4-998	Q4-998	Q4-998	Q4-998	Q4-998	Q4-998	Q4-998	Q4-998
Date Sampled			08/19/83		08/19/83	07/10/86	07/10/86	07/10/86	07/10/86	07/10/86	07/10/86	07/10/86	07/10/86	07/10/86	07/10/86	07/10/86
Sampled By			SCHD		SCHD	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/26/83		08/26/83	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86	07/14/86
Lab			RAS		RAS	SAC	USAF	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis																
Lab Analysis																
Chloroethane	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethane	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethene	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	3400	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	6	7	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total 1,2-Dichloroethane	16	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	200	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromochloroethane	100	100	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	10	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloropropene	5	5	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethene	100	100	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibromochloroethane	100	100	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	100	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloropropene	87	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethylvinyl ether	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzofuran	100	100	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LOD)0.5	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1,2-Tetrachloroethane	NE	NE	NE		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

NE = First laboratory duplicate analysis  
 NE = Second laboratory duplicate analysis  
 NE = Off base residential well

NE = California Department of Health Services  
 RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 USAF = United States Air Force  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established



[illegible]

ALL RIGHTS RESERVED

FW = Off base residential well

- == Radlan Corporation, Sacramento
- == United States Air Force
- == Brown & Caldwell
- == Radlan Analytical Services
- == Arlab Analytical Lab
- == Radlan Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHO 8010 ANALYTES (METHO 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Priority ML	Q4-1023	Q4-1033	Q4-1045	Q4-1045	Q4-1045	Q4-1045	Q4-1045	Q4-1053	Q4-1053	Q4-1053	Q4-1053
Date Sampled			08/19/83	07/16/84	03/31/86	10/28/86	01/30/87	01/30/87	01/30/87	01/30/87	01/30/87	01/30/87	07/09/86
Sampled By			SCHD	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/24/83	07/24/84	04/05/86	10/30/86	02/04/87	02/04/87	02/04/87	02/04/87	02/04/87	02/04/87	07/16/86
Lab			RAS	RAS	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	USAF
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	0.12C	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	0.37C	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LTB = Second laboratory duplicate analysis  
 CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 USAF = United States Air Force  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantization  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	ML	WELL NUMBER									
						04-1053	04-1053	04-1142	04-1142	04-1142	04-1142	04-1142	04-1156	04-1156	04-1157
Date Sampled						10/20/86	10/20/86	07/02/85	10/31/85	01/16/86	04/11/86	07/11/86	10/14/86	11/12/85	04/09/86
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed						10/21/86	11/12/85	07/05/85	11/12/85	01/28/86	04/15/86	07/15/86	10/15/86	11/22/85	04/13/86
Lab						SAC	SAC	RAS	BAC	SAC	SAC	SAC	SAC	BAC	SAC
Field Analysis															
Lab Analysis															
Chloroethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE				NO	NO	3.6	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	4	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

NE = Not established

NO = Not analyzed

NA = Not analyzed

LIQ = Limit of quantitation

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

BAC = Brown & Caldwell

RADIAN = Radian Analytical Services

MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-1158	04-1162	04-1163	04-1170	04-1173	04-1175	04-1175	04-1175	04-1176	04-1177
Date Sampled			10/25/83	08/17/83	11/01/83	07/17/86	11/02/84	08/17/83	10/28/86	01/29/87	01/20/84	01/20/84
Sampled By			SCHD	SCHD		RADIAN		SCHD	RADIAN	RADIAN		
Date Analyzed			11/02/83	08/23/83	11/14/83	07/18/86	11/17/84	08/23/83	10/30/86	02/02/87	01/31/84	01/31/84
Lab			RAS	RAS	RAS	SAC	RAS	RAS	SAC	SAC	RAS	RAS
Field Analysis										PTB		
Lab Analysis										PTB		
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.2
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

PTB = First field duplicate analysis

PTB = Second field duplicate analysis

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

SCHD = Sacramento County Health Department

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	OW-1180	OW-1190	OW-1191	OW-1192	OW-1213	OW-1232	OW-1233	OW-1235	OW-1236	OW-1237	OW-1238
Date Sampled			08/08/84	12/04/84	11/01/83	02/23/84	01/10/86	03/19/84	06/28/83	11/29/79	11/29/79	11/29/79	11/29/79
Sampled By					SCD		RADIAN			SCD			
Date Analyzed			08/14/84	12/10/84	11/14/83	02/28/84	01/18/86						
Lab			RAS		RAS	RAS	SAC						
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichlorocyclopentane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichlorocyclopentane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
OW = OEE base residential well

RADIAN = Radian Corporation, Sacramento  
SCD = Sacramento County Health Department  
RAS = Radian Analytical Services  
ANLAB = AnLab Analytical Lab  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8010 ANALYTES (METHOD 601 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER	
	Action Level	Primary MCL	04-1238	04-1238
Date Sampled			10/29/86	10/29/86
Sampled by			RADIAN	RADIAN
Date Analyzed			10/31/86	10/31/86
Lab			SAC	SAC
Field Analysis			FTB	FTB
Lab Analysis			FDA	LDA
Chloroethane	NE	NE	ND	ND
Bromoethane	NE	NE	ND	ND
Vinyl chloride	2	1	ND	ND
Chloroethane	NE	NE	ND	ND
Methylene chloride	40	NE	ND	ND
Trichloroethene	3400	NE	ND	ND
1,1-Dichloroethane	6	7	ND	ND
1,1-Dichloroethane	20	NE	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND
Chloroform	100	100	ND	ND
1,2-Dichloroethane	1	5	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND
Carbon tetrachloride	5	5	ND	ND
Bromodichloroethane	100	100	ND	ND
1,2-Dichloropropane	10	NE	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND
Trichloroethene	5	5	ND	ND
Dibromochloroethane	100	100	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND
Bromoforn	100	100	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND
Tetrachloroethane	4	NE	ND	ND
Chlorobenzene	30	NE	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LTB = Second laboratory duplicate analysis  
 GW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

RESULTS FOR METHOD 8020

(METHOD 602 PRIOR TO OCTOBER 1988)

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			BA-10	BA-10	BA-10	BA-10	BA-10	BA-13	BA-13	BA-18	BA-18	BA-18
Date Sampled			12/02/85	12/02/85	03/26/86	12/04/86	12/02/85	03/26/86	12/04/86	12/02/85	03/26/86	12/04/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/11/85	12/11/85	03/31/86	12/09/86	12/12/85	03/31/86	12/08/86	12/12/85	03/31/86	12/08/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										FDA		
Lab Analysis			LDA	LDB								
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
BA = Base production well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	BA-29	BA-29	BA-29	BA-29	BA-29	BA-29	BA-73	BA-73	BA-73	BA-73
	Level	MCL										
Date Sampled			12/02/85	03/27/86	03/27/86	03/27/86	12/04/86	12/04/86	11/03/87	12/02/87	02/01/88	05/03/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/11/85	04/03/86	04/03/86	04/03/86	12/08/86	12/08/86	11/04/87	12/08/87	02/02/88	03/13/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis				LDA	LDA	LDA	LDA	LDA				
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	560C	880C	580C	750C

ALL UNITS ARE ug/l

BA = Extraction Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

BM = Base production well

Analytical data for BA-63 and BA-69 appear under M4-63 and M4-69

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-83	EA-83	EA-83	EA-83
	Level	MDL										
Date Sampled			05/03/88	06/07/88	08/03/88	09/02/88	09/02/88	11/03/88	12/02/87	12/02/87	02/01/88	03/01/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				06/10/88	08/08/88	09/06/88	09/06/88	11/09/88	12/06/88	11/06/87	02/02/88	03/13/88
Lab			CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
						LDA	LDB					
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	10C	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	6.0C	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	290C	79P	ND	ND	ND	30P	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA

ALL UNITS ARE ug/l

EA = Extraction Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Ceramite Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

P or RC = Identity previously confirmed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	EA-83	EA-83	EA-83	EA-84	EA-84	EA-84	EA-84	EA-84	EA-84	EA-84
	Level	MCL										
Date Sampled			05/03/88	06/07/88	08/03/88	09/02/88	11/03/87	12/02/87	02/01/88	03/01/88	05/03/88	09/02/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			06/10/88	06/10/88	08/08/88	09/06/88	11/06/87	12/08/87	02/02/88	03/13/88	06/10/88	09/06/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	5.8C	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	50C	ND	ND	50C	42C	50C
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	6.0C	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	3.8C	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	40C	26C	10C	ND
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
EA = Extraction Well

RADIAN = Radian Corporation, Sacramento  
 CES = Canine Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 P or PC = Identity previously confirmed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			EA-84	EA-85	EA-85	EA-85	EA-85	EA-85	EA-85	EA-85	EA-86		
Date Sampled			10/28/88	11/03/87	11/03/87	12/02/87	02/01/88	03/01/88	05/03/88	06/07/88	08/04/88	09/02/88	11/03/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/02/88	11/06/87	11/09/87	12/08/87	02/02/88	03/13/88	06/10/88	08/10/88	09/06/88	11/06/87	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	CES	SAC	SAC	SAC	
Field Analysis													
Lab Analysis			LDA	LDB									
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

EA = Extraction Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Cereside Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	EA-86	EA-86	EA-86	EA-86	EA-86	EA-86	EA-86	EA-87	EA-87	EA-87
Date Sampled			12/02/87	02/01/88	03/01/88	05/03/88	06/07/88	08/03/88	09/02/88	11/03/87	12/02/87	02/01/88
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
EA = Extraction Well

RADIAN = Radian Corporation, Sacramento  
CES = Cantrite Environmental Services  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	ML	BA-87	BA-87	BA-87	BA-137	BA-137	BA-137	BA-137	BA-137	BA-137	BA-137
Date Sampled					05/03/88	06/07/88	08/04/88	09/02/88	02/10/88	04/25/88	07/14/88	07/14/88	07/14/88	07/14/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					06/10/88	08/10/88	08/10/88	09/06/88	02/11/88	04/27/88	07/15/88	07/15/88	07/15/88	07/15/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	600	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

BA = Extraction Well

FB = First field duplicate analysis

FB = Second field duplicate analysis

LD = First laboratory duplicate analysis

LD = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Granite Environmental Services

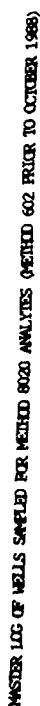
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			EA-140	EA-140	EA-140	EA-141	EA-141	EA-6	EA-7	EA-9	EA-10			
Date Sampled			02/09/88	04/20/88	07/07/88	02/09/88	04/19/88	07/08/88	10/02/84	10/01/84	09/21/84	09/30/84	09/28/84	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			02/10/88	04/22/88	07/08/88	02/10/88	04/22/88	07/11/88	10/10/84	10/10/84	09/25/84	09/09/84	09/25/84	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS	RAS	
Field Analysis														
Lab Analysis														
Chlorobenzenes	30	NE	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	
1,3-Dichlorobenzenes	150	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichlorobenzenes	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dichlorobenzenes	(LC)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Biphenyls	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluenes	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

ALL UNITS ARE  $\mu\text{g/l}$

ALL UNITS ARE up/1  
MW = Monitoring Unit  
EW = Extraction Unit

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

RAILIAN = Railian Corporation, Sacramento  
RAS = Railian Analytical Services  
SAC = Railian Analytical Services, Sacramento



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	M4-10	M4-10	M4-11	M4-11	M4-12	M4-12	M4-12	M4-12	M4-14
Date Sampled			04/07/88	07/22/88	10/20/88	09/19/84	04/06/88	07/25/88	09/20/84	04/07/88	09/20/84
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			CES	SAC	SAC	RAS	CES	SAC	RAS	CES	RAS
Analysis											
Chlorobenzene	30	NE	ND	ND	ND	NA	ND	ND	NA	ND	NA
1,3-Dichlorobenzene	130	NE	ND	ND	ND	14	ND	ND	ND	ND	157
1,2-Dichlorobenzene	130	NE	200C	170C	120P	8	ND	ND	ND	ND	76
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	34	ND	ND	ND	ND	360
Benzene	.7	5	11C	ND	ND	ND	30C	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	282	ND	ND	1	ND	80
Total Xylenes	NE	NE	NA	NA	ND	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
CES = Caronde Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
P or PC = Identity previously confirmed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-14	M4-14	M4-14	M4-15	M4-15	M4-15	M4-16D	M4-16S	M4-17D	M4-17D
Date Sampled			04/06/88	07/22/88	10/20/88	09/18/84	04/06/88	07/22/88	10/20/88	09/24/84	09/26/84	05/14/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/26/88	10/21/88	10/21/88	09/24/84	07/26/88	10/21/88	09/26/84	10/08/84	10/08/84	05/18/87
Lab			CES	SAC	SAC	RAS	CES	SAC	SAC	RAS	RAS	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	NA	ND	ND	ND	NA	NA	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	44	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	28	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	132	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	7800	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	ND	NA	NA	NA	NA	4.0	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
CES = Canone Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-17D	M4-17D	M4-17D	M4-17D	M4-17D	M4-17S	M4-18D	M4-18D	M4-18D	M4-18D
Date Sampled			08/11/87	10/22/87	01/27/88	04/08/88	07/21/88	09/13/84	09/25/84	09/25/84	03/28/86	10/01/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/17/87	10/27/87	01/29/88	04/11/88	07/25/88	09/17/84	10/08/84	10/08/84	04/01/86	10/02/86
Lab			SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	SAC	SAC
Field Analysis									FTB	FTB		
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		Action		Level		ML		WELL NUMBER									
	Primary	M4-19S	M4-19S	M4-19S	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D
Date Sampled																				
Sampled By																				
Date Analyzed																				
Lab																				
Field Analysis																				
Lab Analysis																				
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LDQ)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	.7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Ethylbenzene	680	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Toluene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total Nylens	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

RADIAN - Radian Corporation, Sacramento

RAS - Radian Analytical Services

CES - Caronde Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

LOQ - Limit of quantitation

NE - Not established

	NA	NA	NA	NA	NA
ND	= Nothing detected				
NA	= Not analyzed				
C	= Analysis confirmed in second column analysis				
LQ	= Limit of quantitation				
NE	= Not established				

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

301

MASTER LOG OF WELLS SAMPLED FOR MEDRED 8020 ANALYTES (MEDRED 602 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21S	M4-21S	M4-21S
Date Sampled			08/14/87	08/14/87	10/17/87	01/25/88	04/12/88	04/13/88	07/18/88	09/17/84	03/19/86	09/30/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/19/87	08/19/87	10/20/87	01/27/88	04/14/88	04/15/88	07/19/88	09/25/84	03/21/86	10/01/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	RAS	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB			FLA	FLB				
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LDQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FLA = First field duplicate analysis

FLB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LDQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S
Date Sampled			05/01/87	08/14/87	10/17/87	01/25/88	01/25/88	01/25/88	01/25/88	04/13/88	07/26/88	09/20/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/05/87	08/19/87	10/20/87	01/27/88	01/27/88	01/27/88	01/27/88	04/15/88	07/27/88	09/26/84
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	RAS
Field Analysis												FDA
Lab Analysis						IDA	LDB	LDB	LDB			FDB
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

IDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

RAS - Radian Analytical Services

CES - Corinne Environmental Services

SAC - Radian Analytical Services, Sacramento

NO - Nothing detected

NA - Not analyzed

LQ - Limit of quantitation

NE - Not established





## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-23D	M4-23D	M4-23D	M4-23D	M4-23D	M4-23D	M4-23D	M4-23D	M4-23D	M4-23D
Date Sampled			03/17/86	03/17/86	10/16/86	01/22/87	05/05/87	08/12/87	10/25/87	01/21/88	04/21/88	04/21/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/20/86	03/20/86	10/20/86	01/27/87	05/06/87	08/18/87	10/29/87	01/22/88	04/25/88	04/26/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CES
Field Analysis			FDA	FDB				LDB				
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	0.4(1.0)	ND	ND	ND	ND	ND	0.53C(0.56)	NR	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Camille Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantization

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (BEHND 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		M4-240		M4-240		M4-240		M4-240		M4-240		M4-240	
	Action	Primary	M4-230	M4-235	M4-240	M4-240	M4-240	M4-240	M4-240	M4-240	M4-240	M4-240	M4-240	M4-240	M4-240	M4-240
Date Sampled			07/21/88	09/29/84	09/27/84	03/20/86	09/26/86	09/26/86	09/26/86	01/22/87	05/05/87	08/13/87	10/25/87	01/19/88		
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed			07/25/88	10/09/84	10/10/84	03/26/86	09/29/86	09/29/86	09/29/86	01/27/87	05/06/87	08/17/87	10/29/87	01/20/88		
Lab			SAC	RAS	RAS	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC		
Field Analysis																
Lab Analysis																
Chlorobenzene	30	NE	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Priority ML	M4-240	M4-240	M4-24S	M4-25D	M4-25S	M4-26D	M4-26S	M4-27D	M4-27D	M4-27D
Date Sampled			04/21/88	07/12/88	09/12/84	09/25/84	09/29/84	09/27/84	09/29/84	10/01/84	10/08/84	05/13/87
Date Analyzed			04/25/88	07/14/88	09/17/84	10/08/84	10/08/84	10/08/84	10/09/84	10/09/84	10/09/84	05/18/87
Lab			SAC	SAC	RAS	RAS	RAS	RAS	RAS	RAS	RAS	SAC
Field Analysis										FDA	FTB	SAC
Lab Analysis										FDA	FTB	FDA
Chlorobenzene	30	NE	NO	NO	NA	NA	NA	NA	NA	NA	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LDQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IHS U.S. EPA		WELL NUMBER		M4-27D		M4-27D		M4-27D		M4-27D		M4-27D		M4-27D		M4-27D	
	Action	Primary	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	
Date Sampled			08/11/87	10/22/87	10/22/87	10/22/87	01/26/88	01/26/88	01/26/88	04/08/88	04/08/88	07/20/88	07/20/88	07/20/88	07/20/88	07/20/88	07/20/88	07/20/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/17/87	10/28/87	10/28/87	10/28/87	01/28/88	01/28/88	01/28/88	04/11/88	04/11/88	07/22/88	07/22/88	07/22/88	07/22/88	07/22/88	07/22/88	07/22/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis																		
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyls	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

UNITS ARE ug/l

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FTB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LTB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Ceramite Environmental Services

SAC - Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

ALL UNITS ARE ug/l

MM = Monitoring Well  
F0A = First field duplicate analysis  
F0B = Second field duplicate analysis  
L0A = First laboratory duplicate analysis  
L0B = Second laboratory duplicate analysis

RA01AN = Radon Concentration, Sacramento  
RAS = Radon Analytical Services  
SAC = Radon Analytical Services, Sacramento

ND = Nothing Detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

309

MASTER LOG OF WELLS SAMPLED FOR METHED 8020 ANALYTES (METHED 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-250	M4-250	M4-250	M4-250	M4-250	M4-250	M4-250	M4-250	M4-250	M4-250
Date Sampled			04/03/86	04/03/86	10/01/86	01/15/87	04/29/87	08/12/87	10/24/87	01/19/88	01/19/88	04/12/88
Date Analyzed			04/08/86	04/08/86	10/02/86	01/21/87	05/01/87	08/18/87	10/29/87	01/20/88	01/20/88	04/14/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	0.43(0.56)	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canale Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER								DATE		DATE		DATE		DATE	
	Action	Primary	Level	ML	M4-250	M4-30S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	
Date Sampled					07/12/88	09/18/84	09/25/84	03/28/86	10/08/86	10/08/86	10/08/86	01/22/87	04/29/87	08/12/87	10/27/87	01/27/88		
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed					07/14/88	09/25/84	10/08/84	04/01/86	10/10/86	10/10/86	10/10/86	01/28/87	05/01/87	08/18/87	10/30/87	01/29/88		
Lab					SAC	RAS	RAS	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC		
Field Analysis																		
Lab Analysis																		
Chlorobenzene	30	NE			ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	LDA	
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene	(LOQ) 0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Benzene	.7	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Ethylbenzene	680	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Total Xylenes	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

ALL UNITS ARE ug/l

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHYL 4020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-31S	M4-31S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S
Date Sampled			01/27/88	04/13/88	09/18/84	10/30/86	01/29/87	01/29/87	01/29/87	04/16/87	04/16/87	07/31/87
Date Analyzed			01/29/88	04/14/88	09/25/84	11/03/86	01/30/87	01/30/87	01/30/87	04/17/87	04/17/87	07/31/87
Lab			SAC	SAC	RAS	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDB				FDA	FDA	FDA	FDA	FDA	FDA
Chlorobenzene	30	NE	ND	ND	NA	0.84C	1.4C	1.2L	0.98L	0.94L	0.94L	0.68L
1,3-Dichlorobenzene	130	NE	ND	ND	4.3	10NC	5.6C	4.5L	4.8L	4.6L	4.6L	5.8L
1,2-Dichlorobenzene	130	NE	ND	ND	2.5	4.9C	18C	15L	20C	19L	19L	14L
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	9.3	4.2C	5.8C	5.3L	7.2L	6.8L	6.8L	7.0L
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	0.40NC	ND	ND	0.33L	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	0.40L	0.30L(0.66)	0.34L(0.66)	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDB = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

NC = Result was not confirmed in second column analysis

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

DL = Diluted out of the confirmation run

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



B

**RADIAN** = Radian Corporation, Sacramento  
**CES** = Canole Environmental Services  
**SAC** = Radian Analytical Services, Sacramento

FD = Farming well  
FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS	U.S. EPA	Action	Priority	ML	M4-36S	M4-38D	M4-40S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S
Date Supplied														
Date Analyzed														
Lab														
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	.7	5	5	5	5	5	5	5	5	5	5	5	5	5
Ethylbenzene	680	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Toluene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total Xylenes	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S
Date Sampled			04/24/87	06/05/87	10/20/87	10/20/87	10/20/87	01/26/88	01/26/88	07/13/88	07/13/88	07/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/28/87	06/07/87	10/22/87	11/24/87	10/22/87	01/28/88	01/28/88	08/09/88	07/14/88	07/14/88
Lab			SAC	SAC	SAC	CES	SAC	SAC	SAC	CES	SAC	SAC
Field Analysis												
Lab Analysis			LIB			FDA	FDA				FDA	FDA
Chlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	(LDQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Brylbenzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDL = Second field duplicate analysis

LIB = First laboratory duplicate analysis

LDL = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Caron Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LDQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	MTL	Well Number	MA-44S	MA-44S	MA-44S	MA-44S	MA-44S	MA-44S	MA-44S
Date Sampled													
Sampled By													
Date Analyzed													
Lab													
Field Analysis													
Lab Analysis													
Chlorobenzene	30	NE	ND	ND	ND	07/13/88	RADIAN	09/28/84	09/13/84	09/21/84	03/21/86	09/17/86	01/12/87
1,3-Dichlorobenzene	130	NE	ND	ND	ND	07/14/88	RADIAN	10/09/84	09/17/84	09/26/84	04/01/86	09/23/86	02/05/87
1,2-Dichlorobenzene	130	NE	ND	ND	ND								
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND								
Benzene	.7	5	ND	ND	ND								
Ethylbenzene	680	NE	ND	ND	ND								
Toluene	100	NE	ND	ND	ND								
Total Xylenes	NE	NE	NA	NA	NA								

ALL UNITS ARE ug/l

MA = Monitoring Well

DES = Second field duplicate analysis

MTL = First laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-44S	M4-44S	M4-44S	M4-44S	M4-45S	M4-46S	M4-47S	M4-49S	M4-51	M4-51
Date Sampled			10/23/87	01/22/88	04/26/88	07/20/88	07/20/88	09/19/84	09/29/84	10/01/84	07/25/88	11/22/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/29/87	01/26/88	04/28/88	07/22/88	07/22/88	09/25/84	10/09/84	10/09/84	07/26/88	11/25/86
Lab			SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	SAC	SAC
Field Analysis			LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB
Lab Analysis			LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(IDQ) 0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDB = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radlan Corporation, Sacramento

RAS = Radlan Analytical Services

SAC = Radlan Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-51	M4-51	M4-51	M4-51	M4-51	M4-51	M4-52	M4-52	M4-52
Date Sampled			04/23/87	08/03/87	10/15/87	01/11/88	01/11/88	04/08/88	07/07/88	11/24/86	01/29/87
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis											
Lab Analysis											
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	10C	NO
ALL UNITS ARE ug/l											
M4 = Monitoring Well											
FDA = First field duplicate analysis											
FTB = Second field duplicate analysis											

RADIAN = Radian Corporation, Sacramento  
 CES = Carville Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-52	M4-52	M4-52	M4-52	M4-52	M4-52	M4-52	M4-52	M4-52	M4-52
Date Sampled			07/27/87	10/16/87	01/07/88	04/07/88	07/05/88	11/21/86	01/20/87	05/08/87	07/28/87	10/21/87
Date Analyzed			07/28/87	10/19/87	01/08/88	04/08/88	07/06/88	11/25/86	01/23/87	05/12/87	07/29/87	10/23/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	0.58	0.58	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	4.4	4.4	NO	NO	NO	NO
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IHS	U.S. EPA Primary Level	WELL NUMBER									
			M4-53	M4-53	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54
Date Supplied			04/07/88	07/05/88	11/20/86	01/15/87	04/27/87	04/27/87	04/27/87	08/10/87	10/19/87	10/19/87
Supplied By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/08/88	07/06/88	12/03/86	03/22/87	05/05/87	05/05/87	05/06/87	08/17/87	10/23/87	10/23/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	0.30C	0.21C	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	1.0L	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	35C	18C	1.5C	1.2C	1.4C	ND	ND	ND
1,4-Dichlorobenzene	(LC)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	NE	ND	9.5C	ND	1.0C	0.79C	0.77C	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	8.4C	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	230C	4.7C	2.7C	1.5C	1.2C	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	0.41C(0.56)	0.34C(0.56)	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FD = First field duplicate analysis

FD = Second field duplicate analysis

LD = First laboratory duplicate analysis

LD = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

DL = Diluted out of the confirmation run

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED B20 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	ML	Well Number	MA-54	MA-54	MA-54	MA-55	MA-55	MA-55	MA-55
	Action											
	Level											
Data Sampled												
Sampled By												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE										
1,3-Dichlorobenzene	130	NE										
1,2-Dichlorobenzene	130	NE										
1,4-Dichlorobenzene	(LOD)0.5	NE										
Benzene	.7	5										
Ethylbenzene	600	NE										
Toluene	100	NE										
Total Xylenes	NE	NE										

ALL UNITS ARE ug/l

MA - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Canisius Environmental Services

SAC - Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

DL = Diluted out of the confirmation run

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-57
Date Sampled			08/13/87	10/14/87	10/14/87	01/11/88	04/08/88	07/11/88	07/11/88	07/11/88	07/11/88	11/19/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/18/87	10/18/87	11/09/87	01/12/88	04/13/88	08/16/88	07/12/88	07/12/88	07/12/88	11/22/86
Lab			SAC	SAC	CES	SAC	SAC	CES	SAC	SAC	SAC	SAC
Field Analysis							FDA		FDA	FDA	FDB	
Lab Analysis									LDA	LDB		
Chlorobenzene	50	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.2C NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Caronde Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-57	M4-57	M4-57	M4-57	M4-57	M4-57	M4-57	M4-58	M4-58	M4-58
Date Sampled			01/13/87	04/28/87	04/28/87	07/30/87	10/12/87	01/08/88	04/22/88	07/06/88	11/21/86	01/19/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/20/87	04/30/87	04/30/87	08/03/87	10/14/87	01/11/88	04/26/88	07/07/88	11/25/86	01/22/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FTB							FDA
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	1.3C	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	22C	ND
												NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FIA = First field duplicate analysis

FTB = Second field duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantization

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR MEHRD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IHS U.S. EPA		WELL NUMBER									
	Action	Primary	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58	M4-58
Date Sampled			01/19/87	04/30/87	08/06/87	10/13/87	01/11/88	04/06/88	07/07/88	04/02/86	11/18/86	01/12/87
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDL									
Lab Analysis			LDA									
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	150	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDL = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-59	M4-59	M4-59	M4-59	M4-59	M4-59	M4-59	M4-59	M4-59	M4-60
Date Sampled			01/12/87	04/21/87	08/10/87	10/09/87	01/08/88	04/08/88	04/08/88	07/06/88	10/28/86	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			01/20/87	04/23/87	08/17/87	10/12/87	01/11/88	04/12/88	04/12/88	07/07/88	10/29/86	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	CES	SAC	SAC	
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	
Lab Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL LIMITS ARE ug/l

M4 = Monitoring Well

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Granite Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority	MLL	M4-60	M4-60	M4-60	M4-60	M4-60	M4-60	M4-61	M4-61	M4-61
Date Sampled				01/13/87	04/24/87	08/13/87	10/25/87	01/22/88	01/22/88	04/18/88	07/20/88	03/19/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				01/19/87	04/28/87	08/18/87	10/29/87	01/25/88	01/25/88	04/21/88	07/22/88	03/21/86
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	NE	ND	ND	ND	0.39C(0.56)	NR	NR	ND	ND	0.89(0.99)
Total Nylanes	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established



Parameter	DES Action Level	U.S.EPA Primary MCL	WELL NUMBER										
			M4-61	M4-61	M4-61	M4-61	M4-61	M4-61	M4-62	M4-62	M4-62	M4-63	
Date Sampled			05/07/87	05/07/87	08/07/87	10/13/87	01/19/88	01/19/88	01/19/88	07/20/88	04/26/88	07/26/88	04/02/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/12/87	05/12/87	08/11/87	10/16/87	01/20/88	01/20/88	01/20/88	04/26/88	07/22/88	07/27/88	04/05/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis			LDA	LDB			LDA	LDB					FTA
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	4, AC	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**ALL UNITS ARE U/1**

1799 September - 1900

**FPDA = First field duplicate analysis**

ILDA = First Laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

## References

**RADIANS = Radian Conversion. Sacramento**

SSAC = Radlan Analytical Services, Sacramento

— NATIONAL RESEARCH COUNCIL ON ADDICTION, NATIONAL ACADEMY OF SCIENCES, 1990

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8020 ANALYTES (METHED 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63	M4-63
Date Sampled			04/02/86	04/02/86	11/25/86	11/25/86	01/27/87	05/11/87	06/14/87	10/22/87	01/23/88	04/15/88	07/15/88
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis			LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALL UNITS ARE ug/l													
M4 = Monitoring Well													
FDA = First field duplicate analysis													
FTB = First field duplicate analysis													
LDA = First laboratory duplicate analysis													
LDB = Second laboratory duplicate analysis													
RADIAN = Radian Corporation, Sacramento													
SAC = Radian Analytical Services, Sacramento													
ND = Nothing detected													
NA = Not analyzed													
C = Analysis confirmed in second column analysis													
LDQ = Limit of quantitation													
NE = Not established													

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Primary	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67	M4-67
	Level	ML												
Data Sampled			03/20/86	10/17/86	01/23/87	05/06/87	08/15/87	10/20/87	10/20/87	01/26/88	01/26/88	01/26/88	04/26/88	07/15/88
Supplied By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed			03/26/86	10/21/86	01/29/87	05/11/87	08/19/87	11/24/87	11/24/87	01/28/88	01/28/88	01/28/88	04/28/88	07/18/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LDB - Second Laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Canale Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

LOQ - Limit of quantitation

( ) - Data decision criterion (DDC). Indicates result below DDC.

NE - Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-68	M4-68	M4-68	M4-68	M4-68	M4-68	M4-69	M4-69	M4-69	M4-69
Date Sampled			05/13/87	08/07/87	10/23/87	01/25/88	04/08/88	04/08/88	07/20/88	11/25/86	01/28/87	05/13/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/18/87	08/10/87	10/29/87	01/27/88	04/11/88	04/11/88	07/22/88	12/02/86	01/30/87	05/18/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	NR	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	13C	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDN = First field duplicate analysis

FDN = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 820 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER		M4-69		M4-70		M4-70		M4-70	
	Action	Primary	M4-69	M4-70	M4-69	M4-70	M4-69	M4-70	M4-69	M4-70	M4-69	M4-70
Date Sampled			10/20/87	01/23/88	04/19/88	04/19/88	07/13/88	01/29/87	05/12/87	08/14/87	10/16/87	01/07/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/23/87	01/25/88	04/21/88	04/21/88	07/14/88	01/30/87	05/18/87	08/19/87	10/19/87	01/08/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis					LDA	LDB						FDA
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	1.3C	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED PER METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER									
	Action	Primary	M4-70	M4-70	M4-71	M4-71	M4-72	M4-72	M4-72	M4-72	M4-72	M4-72
	Level	MCL										
Data Sampled			04/21/88	07/05/88	04/22/88	07/20/88	05/08/87	06/14/87	10/20/87	10/20/87	10/20/87	04/11/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/25/88	07/06/88	04/26/88	07/22/88	05/12/87	08/19/87	10/22/87	11/24/87	04/13/88	04/11/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	CCS	SAC	RADIAN
Field Analysis			FTB									CCS
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	2.6GL	ND	ND	ND	11PC	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CCS = Canonic Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

DL = Diluted out of the confirmation run

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	M4-72	M4-72	M4-72	M4-74	M4-75	M4-76	M4-76	M4-88
			Level	MCL								
Date Sampled					07/21/88	07/21/88	07/21/88	07/21/88	04/21/88	07/20/88	04/28/88	01/06/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					08/16/88	07/25/88	07/26/88	07/27/88	04/29/88	07/25/88	05/02/88	01/08/87
Lab					CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FDA	FDA					
Lab Analysis						LDA	LDB					
Chlorobenzene	30	NE			ND	ND	ND	ND	0.31C	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	1.6C	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	0.73C	ND	ND	ND
Benzene	.7	5			ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	600	NE			ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE			ND	ND	ND	ND	3.5C	ND	4.6C	ND
Total Xylenes	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-88	M4-88	M4-88	M4-88	M4-88	M4-88	M4-88	M4-88	M4-89	M4-89
Date Sampled			05/04/87	05/04/87	08/13/87	10/24/87	01/21/88	01/21/88	01/21/88	04/11/88	07/08/88	01/06/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/06/87	05/06/87	08/17/87	10/29/87	01/22/88	01/22/88	01/22/88	04/12/88	07/11/88	05/04/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB								
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-89	M4-89	M4-89	M4-89	M4-90	M4-90	M4-90	M4-90	M4-90	M4-90
Date Sampled			10/21/87	01/11/88	04/15/88	07/08/88	01/20/87	05/04/87	08/13/87	10/12/87	01/20/88	04/11/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/28/87	01/12/88	04/20/88	07/11/88	01/23/87	05/06/87	08/17/87	10/14/87	01/21/88	04/12/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-90	M4-90	M4-91	M4-91	M4-91	M4-91	M4-91	M4-91	M4-91	M4-91
Date Sampled			04/11/88	07/14/88	01/20/87	01/20/87	07/28/87	10/12/87	10/12/87	01/21/88	04/18/88	07/20/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/12/88	07/15/88	01/26/87	01/26/87	07/29/87	10/13/87	10/13/87	01/22/88	04/19/88	07/22/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB		FDA	FTB		FDA	FTB			
Lab Analysis												
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.30P

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	WELL NUMBER										
			M4-92	M4-92	M4-92	M4-92	M4-92	M4-92	M4-92	M4-92	M4-92	M4-100	
Date Sampled													
Sampled By													
Date Analyzed													
Lab													
Field Analysis													
Lab Analysis													
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	0.60C	0.79C	NO	NR	NR	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FA = First field duplicate analysis

FD = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LDQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER									
	Action	Primary	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100	M4-100
Level												
MCL												
Date Sampled			12/21/85	12/21/85	02/27/86	09/16/86	01/09/87	04/17/87	08/07/87	08/07/87	10/19/87	01/22/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/26/85	12/26/85	03/11/86	09/23/86	01/15/87	04/21/87	08/13/87	08/11/87	10/21/87	01/26/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB					FDA	FDB		
Lab Analysis			LDB				LDA					
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYTES (PERIOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS U.S. EPA		WELL NUMBER		M4-101		M4-101		M4-101		M4-101		M4-101		M4-101	
	Action	Primary	M4-100	M4-100	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101	M4-101
Date Sampled			04/14/88	07/19/88	11/18/85	11/18/85	03/05/86	09/16/86	09/16/86	01/09/87	04/17/87	08/05/87	08/05/87	08/05/87	08/05/87	08/05/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/18/88	07/21/88	11/24/85	11/24/85	03/15/86	09/23/86	09/23/86	01/15/87	04/21/87	08/07/87	08/07/87	08/07/87	08/07/87	08/07/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis																
Lab Analysis					LDA	LDB	LDB	LDA	LDB							
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well  
 FDA - First field duplicate analysis  
 LDA - First laboratory duplicate analysis  
 LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento  
 SAC - Radian Analytical Services, Sacramento

ND - Nothing detected  
 NA - Not analyzed  
 LDQ - Limit of quantitation  
 NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER							
				M4-101	M4-101	M4-101	M4-101	M4-101	M4-102	M4-102	M4-102
Date Sampled				08/05/87	10/19/87	01/22/88	04/14/88	04/14/88	07/19/88	11/05/85	03/11/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				08/07/87	10/22/87	01/26/88	04/18/88	04/18/88	07/21/88	11/11/85	03/17/86
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FTB							
Lab Analysis							LDA	LDB			
Chlorobenzene	30	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-102	M4-102	M4-102	M4-102	M4-102	M4-102	M4-102	M4-102	M4-103	M4-103
Date Sampled			08/07/87	08/07/87	08/07/87	10/19/87	10/19/87	10/19/87	10/19/87	07/12/88	12/20/85	12/20/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/11/87	08/11/87	08/11/87	10/21/87	11/03/87	10/21/87	07/14/88	12/23/85	12/23/85	12/23/85
Lab			SAC	SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDA	FDA	LDA	LDA	LDA	FDA	FDA	FDA	FDA
Lab Analysis			LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LDQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NR	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FIB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Carcinogenic Environmental Services

SAC - Radian Analytical Services, Sacramento

NO - Nothing detected

NR - Not reported

NA - Not analyzed

LDQ - Limit of quantitation

NE - Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-103	M4-103	M4-103	M4-103	M4-103	M4-103	M4-103	M4-103	M4-103	M4-103
Date Sampled				12/20/85	03/11/86	09/18/86	01/09/87	04/22/87	04/22/87	10/19/87	01/20/88	04/25/88	04/25/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				12/23/85	03/17/86	09/23/86	01/15/87	04/27/87	04/27/87	10/21/87	01/21/88	04/27/88	04/27/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FTB								FTB	FTB
Lab Analysis								LDA	LDB			FDA	LDA
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LD)0.5	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Nylons	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	EPA		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	MCL	M4-103	M4-103	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104	M4-104
Date Sampled					04/25/88	07/12/88	12/15/85	12/15/85	03/26/86	10/02/86	01/28/87	05/11/87	05/11/87	07/31/87
Sampled by					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					04/27/88	07/14/88	12/21/85	12/21/85	03/31/86	10/06/86	01/29/87	05/13/87	05/13/87	08/04/87
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FTB	FTB								
Lab Analysis					LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well  
 FTB - Second field duplicate analysis  
 LDB - First laboratory duplicate analysis  
 LTB - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEPTED 8020 ANALYTES (HEPTED 602 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority MCL	M4-104	M4-104	M4-104	M4-105	M4-105	M4-105	M4-105	M4-105	M4-105	M4-105
Date Sampled			10/21/87	01/21/88	04/11/88	07/08/88	12/21/88	03/27/86	10/08/86	10/08/86	01/07/87	04/22/87
Date Analyzed			10/22/87	01/22/88	04/12/88	07/11/88	12/26/88	04/03/86	10/10/86	10/10/86	01/09/87	04/27/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LD)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	0.7	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FTA - First Field duplicate analysis

FTB - Second Field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LDQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IHS U.S. EPA		WELL NUMBER									
	Action	Primary	M4-105	M4-105	M4-105	M4-105	M4-105	M4-106	M4-106	M4-106	M4-106	M4-106
	Level	MCL										
Date Sampled			10/23/87	01/22/88	01/22/88	01/22/88	04/26/88	07/19/88	11/21/85	03/13/86	09/18/86	01/05/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/29/87	01/26/88	01/26/88	04/28/88	07/21/88	11/24/85	03/19/86	09/23/86	01/06/87	04/22/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FTB							
Lab Analysis												
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	0.91C	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS #/S ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LFB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-106	M4-106	M4-106	M4-106	M4-106	M4-106	M4-107	M4-107	M4-107	M4-107	M4-107	M4-107
Date Sampled			07/28/87											
Sampled By			RADIAN											
Date Analyzed			07/29/87											
Lab			SAC											
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE	ND											
1,3-Dichlorobenzene	130	NE	ND											
1,2-Dichlorobenzene	130	NE	ND											
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND											
Benzene	.7	5	ND											
Ethylbenzene	680	NE	ND											
Toluene	100	NE	ND											
Total Xylenes	NE	NE	NA											

ALL UNITS ARE ug/l

M4 - Monitoring Well

FOA - First field duplicate analysis

FTB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

LOQ - Limit of quantitation

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER							
			M4-107	M4-107	M4-107	M4-107	M4-108	M4-108	M4-108	M4-108
Date Sampled			07/30/87	10/12/87	01/14/88	04/18/88	07/12/88	12/27/88	04/01/86	09/19/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/03/87	10/13/87	01/15/88	04/21/88	07/13/88	01/03/86	04/05/86	09/24/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis										
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	120	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

 ALL UNITS ARE ug/l  
 M4 = Monitoring Well

 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

 ND = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER										
	Action Level	Primary MCL	M4-108	M4-108	M4-108	M4-109	M4-109	M4-109	M4-109	M4-109	M4-109		
Date Sampled			10/12/87	01/14/88	04/18/88	07/12/88	11/06/86	01/06/87	04/22/87	07/30/87	10/16/87	01/14/88	04/18/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/13/87	01/15/88	04/21/88	07/13/88	11/11/86	01/08/87	04/24/87	08/03/87	10/20/87	01/15/88	04/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED PER METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS U.S. EPA		WELL NUMBER									
	Action	Priority	M4-109	M4-110	M4-110	M4-110	M4-110	M4-110	M4-110	M4-110	M4-110	M4-110
Date Sampled	Level	MCL										
Sampled By												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CES = Camille Environmental Services  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DS	U.S. EPA Action Level	Primary ML	M4-110	M4-111	M4-111	M4-111	M4-111	M4-111	M4-111	M4-111	M4-111	M4-111
Date Sampled				07/25/88	11/06/88	04/03/86	04/03/86	04/03/86	09/22/86	01/09/87	04/23/87	07/29/87	10/19/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				07/26/88	11/11/88	04/08/86	04/08/86	04/08/86	09/24/86	01/16/87	04/24/87	07/30/87	10/21/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FDA	FDA	FDA					
Lab Analysis						LDA	LDA	LDA					
Chlorobenzene	30	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	(LOQ)0.5	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	.7	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDL = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IES	U.S. EPA	Action	Primary	M4-111	M4-111	M4-111	M4-112	M4-112	M4-112	M4-112	M4-112	M4-112	M4-112
			Level	MCL										
Date Sampled					01/15/88	04/26/88	07/12/88	09/22/86	09/22/86	09/22/86	09/22/86	09/22/86	09/22/86	09/22/86
Date Analyzed					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab					CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Chlorobenzene					LDA	LDB		LDA	LDB					LDA
1,3-Dichlorobenzene	30	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	130	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	(LQ)0.5	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	.7	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	680	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LDB - Second Laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Central Environmental Services

SAC - Radian Analytical Services, Sacramento

NC - Result was not confirmed in second column analysis

NO - Nothing detected

NA - Not analyzed

C - Analysis confirmed in second column analysis

LQ - Limit of quantitation

NE - Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (PERIOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-113	M4-113	M4-114	M4-114	M4-114	M4-114	M4-114	M4-114	M4-114	M4-114
Date Sampled			01/15/88	04/26/88	07/11/88	11/11/85	10/02/86	01/13/87	04/21/87	08/12/87	10/15/87	01/07/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/19/88	04/28/88	07/12/88	11/15/85	10/06/86	01/19/87	04/23/87	08/18/87	10/20/87	01/07/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	RADIAN
Field Analysis												
Lab Analysis												CES
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CES = Cerule Environmental Services  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantization  
NE = Not established

Parameter	IRIS Action Level	U.S.EPA Primary MCL	WELL NUMBER														
			M4-114	M4-114	M4-115	M4-115	M4-115	M4-115	M4-115	M4-115	M4-115	M4-115					
Data Sampled																	
Sampled By																	
Date Analyzed																	
Lab																	
Field Analysis																	
Lab Analysis																	
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LO)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

ND = Nothing detected  
NA = Not analyzed  
LCQ = Limit of quantitation  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-115	M4-115	M4-115	M4-116	M4-116	M4-116	M4-116	M4-116	M4-116	M4-116
Date Sampled			01/07/88	01/07/88	04/22/88	07/18/88	11/11/85	11/11/85	02/28/86	02/28/86	09/26/86	01/14/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/08/88	01/08/88	04/26/88	07/19/88	11/15/85	11/15/85	03/11/86	03/11/86	09/29/86	01/19/87
Lab			SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDB	LDA	LDB		
Lab Analysis							LDA	LDB	LDA	LDB		
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	0.1	0.1	0.22	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	0.1	0.1	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Ceramite Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED PER METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IES	U.S. EPA Action Level	Priority MCL	WELL NUMBER									
				M4-116	M4-116	M4-116	M4-116	M4-117	M4-117	M4-117	M4-117	M4-117	M4-118
Date Sampled				04/27/87	08/03/87	10/09/87	01/13/88	04/11/88	07/06/88	03/04/86	04/20/86	10/20/86	03/25/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				04/30/87	08/06/87	10/12/87	01/14/88	04/12/88	07/07/88	03/14/86	04/22/86	10/22/86	03/31/86
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MJ = Monitoring Well

RA = First field duplicate analysis

FB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantization

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR PESTICIDE ANALYTES (SHEED 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER											
	Action Level	Priority	M4-118	M4-119	M4-119	L-119	M4-120	M4-120	M4-120	M4-120	M4-120	M4-120	M4-120	
Date Sampled			10/21/86			10/20/86	03/04/86	04/20/86	10/11/86	10/13/86	01/20/87	01/20/87	01/20/87	04/20/87
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			10/22/86	03/15/86	03/15/86	10/22/86	03/14/86	04/22/86	10/17/86	10/17/86	01/23/87	01/23/87	01/23/87	04/23/87
Field Analysis			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Lab Analysis									PTA	PTB	PTA	PTB	PTB	
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ) 0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylons	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

LOQ - Limit of quantization

NE - Not established

359



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (PERIOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES		U.S. EPA		WELL NUMBER								
	Action	Primary	M4-121	M4-121	M4-121	M4-121	M4-121	M4-121	M4-121	M4-122	M4-122	M4-122	M4-122
Level													
Date Sampled			01/23/87	04/25/87	08/01/87	10/22/87	01/23/88	04/20/88	07/11/88	02/26/86	11/12/86	01/26/87	05/07/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/29/87	04/28/87	08/10/87	10/27/87	01/25/88	04/22/88	07/12/88	03/10/86	11/20/86	01/29/87	05/12/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	NR	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER									
	Action	Primary	M4-122	M4-122	M4-122	M4-122	M4-122	M4-123	M4-123	M4-123	M4-124	M4-124
Date Sampled			08/08/87	10/22/87	01/23/88	04/19/88	07/18/88	03/25/86	10/21/86	02/25/86	11/24/86	11/24/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/10/87	10/27/87	01/25/88	04/22/88	07/19/88	03/31/86	10/22/86	03/10/86	12/01/86	12/01/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	0.3(1.0)	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS #/88 ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-125	M4-126	M4-127	M4-127	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128
Date Sampled			02/25/86	03/03/86	03/04/86	10/24/86	12/05/86	01/16/87	04/16/87	08/12/87	09/17/87	10/23/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/10/86	03/12/86	03/14/86	10/29/86	12/09/86	01/21/87	04/17/87	08/18/87	09/22/87	10/30/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis								FDA	FEB			
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	0.67IL	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	6.2IL	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	3.0IL	ND
1,4-Dichlorobenzene	(LOD)0.5 NE		ND	ND	ND	ND	ND	ND	ND	ND	4.2IL	ND
Benzene	.7	5	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FEB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

IL = Diluted out of the confirmation run

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128	M4-129	M4-129
	Level	MCL										
Date Sampled			01/13/88	04/12/88	07/12/88	07/12/88	07/12/88	07/12/88	07/12/88	10/20/88	12/05/86	01/16/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/14/88	04/15/88	08/02/88	07/13/88	07/13/88	07/13/88	07/13/88	10/21/88	12/09/86	01/21/87
Lab			SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FDA	FDA	FDA	FTB			
Lab Analysis						LDA	LDA	LDB				
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	600	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Ceramie Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action Level	Primary	MCL		M4-129	M4-129	M4-129	M4-129	M4-130	M4-130	M4-130	M4-130	M4-130	M4-130
Date Sampled					08/12/87	10/23/87	01/13/88	04/12/88	07/12/88	11/13/88	01/16/87	04/15/87	07/29/87	10/27/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					08/18/87	10/29/87	01/14/88	04/13/88	07/13/88	11/20/88	01/21/87	04/16/87	07/30/87	10/30/87
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE			ND	ND	1.1C	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	M4-130	M4-130	M4-130	M4-130	M4-130	M4-130	M4-131	M4-131	M4-131	M4-131
			Level	MCL										
Date Sampled					10/27/87	01/13/88	04/12/88	07/12/88	07/12/88	07/12/88	11/19/86	11/19/86	01/19/87	01/19/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					10/30/87	01/14/88	04/13/88	08/02/88	07/14/88	07/14/88	11/22/86	11/22/86	01/22/87	01/22/87
Lab					SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FIB				FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis									LDA	LDB				
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	120	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylones	NE	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FIB = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

Analytical data for M4-137, M4-140 and M4-141 appear under BA-137, BA-140 and BA-141

RADIAN = Radian Corporation, Sacramento

CES = Cerrito Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

Parameter	DES U.S.EPA		WELL NUMBER							
	Action Level	Primary MCL	M4-131	M4-131	M4-131	M4-131	M4-131	M4-131	M4-131	M4-131
Date Sampled		04/28/87	08/07/87	10/14/87	10/14/87	01/19/88	04/13/88	07/13/88	07/13/88	11/24/88
Sampled By		RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed		04/30/87	08/13/87	10/16/87	10/16/87	01/20/88	04/14/88	08/12/88	07/15/88	12/01/88
Lab		SAC	SAC	SAC	SAC	SAC	SAC	CES	SAC	SAC
Field Analysis				FDA	FTB			CES	FDA	FTB
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	NR	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE U.S./1

**TYPE - Monitoring Well**

FFDA = First field duplicate analysis

FD8 = Second field duplicate analysts

**RADIAN = Radian Corporation, Sacramento**

**CEC** = Canole Environmental Services

== Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed  
NA = Not reported

LOQ = Limit of quantitation  
NE = Not established

NE = Not established

**B**

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132
Date Sampled			01/21/87	05/15/87	05/15/87	07/29/87	10/24/87	10/24/87	01/22/88	01/22/88	04/20/88	04/20/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/26/87	05/19/87	05/19/87	07/30/87	10/29/87	10/29/87	01/25/88	01/25/88	04/22/88	05/03/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CES
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canole Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MZ	M4-132	M4-132	M4-132	M4-132	M4-133	M4-133	M4-134	M4-134	M4-134	M4-134
Date Sampled			07/18/88	07/18/88	07/18/88	07/18/88	07/18/88	07/18/88	07/18/88	07/18/88	07/18/88	07/18/88
Date Analyzed			08/01/88	07/19/88	07/19/88	07/19/88	07/19/88	07/19/88	07/19/88	07/19/88	07/19/88	07/19/88
Lab			CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FA = First Field duplicate analysis

FB = Second Field duplicate analysis

LN = First Laboratory duplicate analysis

LB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Carlin Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-135	M4-135	M4-135	M4-136	M4-136	M4-136	M4-136	M4-136	M4-138	M4-138
Date Sampled			02/08/88	04/14/88	07/11/88	03/10/88	04/25/88	04/25/88	07/14/88	03/11/88	03/11/88	04/22/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/10/88	04/15/88	07/12/88	03/15/88	03/15/88	03/15/88	07/15/88	03/15/88	03/15/88	04/27/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyls	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	15C	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Granite Environmental Services

SAC - Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantization

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA		WELL NUMBER										
		Primary MCL	M4-138	M4-139	M4-139	M4-142	M4-143	M4-143	M4-143	M4-143	M4-143	M4-1000		
Date Sampled			07/14/88	02/09/88	04/19/88	07/08/88	02/09/88	04/26/88	02/10/88	02/10/88	02/10/88	04/26/88	07/21/88	12/12/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/18/88	02/10/88	04/22/88	07/11/88	02/10/88	04/28/88	02/11/88	02/11/88	02/11/88	04/28/88	07/25/88	12/21/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis										LDA	LDB			
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7
Ethylbenzene	660	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	NR	NR	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHYL 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1000	M4-1001	M4-1001
Date Sampled			03/07/86	10/03/86	01/13/87	04/27/87	08/01/87	10/08/87	01/13/88	04/20/88	07/15/88	12/18/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/14/86	10/06/86	01/19/87	04/29/87	08/04/87	10/09/87	01/14/88	04/29/88	07/20/88	12/23/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER							
	DHS Action Level	Precision MCL	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001
Date Sampled			01/15/86	01/26/87	05/08/87	08/08/87	10/09/87	10/09/87	01/20/88	01/20/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/20/86	01/29/87	05/12/87	08/10/87	10/12/87	10/12/87	01/21/88	01/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis							LDA	LDB	LDA	LDB
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NR	NR	NR
ALL LIMITS ARE ug/l							NA	NA	NA	NA

ALL UNITS ARE 10/1

MW = Monitoring Well  
 F1A = First field duplicate analysis  
 F1B = Second field duplicate analysis  
 L1A = First laboratory duplicate analysis  
 L1B = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 CBS = Canale Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IES U.S. EPA		WELL NUMBER									
	Action	Primary	M4-1001	M4-1002	M4-1002	M4-1002	M4-1002	M4-1002	M4-1002	M4-1002	M4-1002	M4-1002
	Level	MCL										
Date Sampled			07/22/88	11/07/85	11/07/85	04/02/86	04/02/86	04/02/86	09/25/86	02/04/87	05/04/87	08/08/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/26/88	11/12/85	11/12/85	04/06/86	04/06/86	04/06/86	09/26/86	02/05/87	05/06/87	08/10/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				LDA	LDB			FTB				
Lab Analysis												
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	0.33P	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MJ = Monitoring Well

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

P or FC = Identity previously confirmed

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-1003	M4-1003	M4-1004	M4-1004	M4-1004	M4-1004	M4-1004	M4-1004	M4-1004	M4-1004
Date Sampled			04/27/88	07/22/88	12/19/85	12/18/85	03/18/86	05/29/86	01/26/87	05/08/87	08/08/87	10/09/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/29/88	07/26/88	12/23/85	12/23/85	03/20/86	10/02/86	01/29/87	05/12/87	08/11/87	10/12/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis					LDA	LDB						FTB
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	0.54(0.99)	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FTB - First field duplicate analysis

FTB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	Well	Well Number	M4-1004	M4-1004	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005
			Level											
Date Sampled														
Sampled By														
Date Analyzed														
Lab														
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE												
1,2-Dichlorobenzene	130	NE												
1,2-Dichlorobenzene	130	NE												
1,4-Dichlorobenzene	(LDQ)0.5	NE												
Benzene	.7	5												
Biphenyls	680	NE												
Toluene	100	NE												
Total Xylenes	NE	NE												

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canotte Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LDQ = Limit of quantitation

DL = Diluted out of the confirmation run

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary ML	WELL NUMBER									
				M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005
Date Sampled				01/09/87	04/16/87	04/16/87	04/16/87	07/31/87	10/15/87	01/19/88	01/19/88	01/19/88	04/27/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				01/19/87	04/20/87	04/20/87	04/21/87	08/03/87	10/19/87	01/20/88	01/20/88	01/20/88	04/29/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis					LDA	LDA	LDB						
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyls	680	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FTA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority MCL	M4-1009	M4-1009	M4-1009	M4-1010	M4-1010	M4-1010	M4-1010	M4-1010	M4-1010
Date Sampled			10/15/87	01/18/88	04/19/88	07/26/88	04/08/86	04/08/86	04/08/86	04/08/86	04/08/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/19/87	01/19/88	04/22/88	07/27/88	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis											
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylons	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DBS Action Level	U.S. EPA Primary MCL	WELL NUMBER				M4-1011				M4-1011				M4-1011				M4-1011			
			M4-1010	M4-1010	M4-1010	M4-1010	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011	M4-1011		
Date Sampled			10/15/87	01/18/88	04/25/88	07/19/88	11/05/88	03/27/86	10/06/86	01/06/87	04/27/87	08/05/87	10/22/87									
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN									
Date Analyzed			10/19/87	01/19/88	04/27/88	07/21/88	11/11/88	03/31/86	10/09/86	01/08/87	04/29/87	08/07/87	10/28/87									
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC									
Field Analysis																						
Lab Analysis																						
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
1,4-Dichlorobenzene	(LDQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	0.34(0.99)	NA	NA	NA	NA						1.2C	NA		

ALL UNITS ARE ug/l

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LDQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-1011	M4-1011	M4-1011	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012
Date Sampled			01/25/88	04/22/88	07/15/88	11/15/88	03/06/86	09/24/86	01/23/87	05/05/87	07/27/87	10/26/87	01/21/88
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	600	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.70C	NA

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	M4-1012	M4-1012	M4-1013	M4-1013	M4-1013	M4-1013	M4-1013	M4-1013	M4-1013	M4-1013
Date Sampled			04/20/88	04/20/88	07/26/88	11/12/85	03/11/86	10/07/86	01/15/87	04/20/87	04/20/87	04/20/87
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB								
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FTB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

LOQ - Limit of quantitation

NE - Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	M4-1013	M4-1013	M4-1013	M4-1013	M4-1013	M4-1014	M4-1014	M4-1014	M4-1014
	Action	Level	MCL									
Date Sampled				08/03/87	10/22/87	10/22/87	10/22/87	01/19/88	04/22/88	07/15/88	11/14/85	11/14/85
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				08/06/87	10/28/87	10/28/87	10/28/87	01/20/88	04/26/88	07/20/88	11/15/85	11/22/85
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				LDB	LDA	LDB	LDB	LDA	LDB	LDB	LDB	LDB
Lab Analysis												
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	(100)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-1014	M4-1014	M4-1014	M4-1014	M4-1014	M4-1014	M4-1015	M4-1015	M4-1015	M4-1015
Date Sampled			01/16/87	04/27/87	08/01/87	10/26/87	01/25/88	04/27/88	07/19/88	12/14/85	03/25/86	10/07/86
Date Analyzed			01/21/87	04/29/87	08/05/87	10/29/87	01/27/88	04/29/88	07/21/88	12/21/85	03/31/86	10/09/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	0.9	ND	0.21
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylons	NE	NE	NA	NA	NA	0.72C	NA	NA	NA	ND	0.49(0.99)	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	M4-1015	M4-1015	M4-1015	M4-1015	M4-1015	M4-1015	M4-1015	M4-1016	M4-1016	M4-1016	M4-1016	M4-1016	M4-1016
			Level	MCL													
Date Sampled					05/04/87	08/01/87	10/17/87	01/19/88	04/22/88	07/15/88	11/14/88	03/12/86	10/07/86	01/16/87	05/07/87		
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed					05/06/87	08/05/87	10/20/87	01/20/88	04/26/88	07/20/88	11/22/88	03/18/86	10/09/86	01/23/87	05/11/87		
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC		
Field Analysis																	
Lab Analysis																	
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	7	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	600	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylons	NE	NE			NA	NA	NA	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
NA = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority MCL	M4-1016	M4-1016	M4-1016	M4-1016	M4-1016	M4-1017	M4-1017	M4-1017	M4-1017			
Date Sampled			08/01/87	10/16/87	10/16/87	10/16/87	01/12/88	04/26/88	07/19/88	11/08/88	03/18/86	09/23/86	01/20/87	04/20/87
Sampled By			RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN	RAOJIAN
Date Analyzed			08/05/87	10/20/87	10/20/87	10/20/87	01/13/88	04/28/88	07/21/88	11/12/88	03/20/86	09/24/86	01/26/87	04/22/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis				LDA	LDB									
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL LIMITS ARE ug/l

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LDB - Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Priority ML	M4-1017	M4-1017	M4-1017	M4-1017	M4-1018	M4-1018	M4-1018	M4-1018	M4-1018	M4-1018
Date Sampled			07/28/87	10/17/87	01/21/88	04/20/88	07/12/88	11/18/88	03/12/86	09/23/86	02/04/87	05/01/87
Date Analyzed			07/29/87	10/20/87	01/22/88	04/22/88	07/14/88	11/24/88	03/18/86	09/24/86	02/05/87	05/05/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER										
	IRIS	Action Priority Level	M4-1018	M4-1018	M4-1018	M4-1018	M4-1018	M4-1019	M4-1019	M4-1019	M4-1019	M4-1019	M4-1019
		MCL											
Date Sampled			10/08/87	01/14/88	04/13/88	07/23/88	12/19/85	04/08/86	09/24/86	01/09/87	04/20/87	04/20/87	06/07/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/09/87	01/15/88	04/15/88	07/26/88	12/23/85	04/10/86	09/26/86	01/16/87	04/22/87	04/22/87	06/13/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NR - Not reported

NA - Not analyzed

LOQ - Limit of quantitation

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	M4-1019	M4-1019	M4-1019	M4-1020	M4-1020	M4-1020	M4-1020	M4-1020
Date Sampled			10/21/87	01/25/88	01/25/88	04/22/88	07/11/88	11/08/85	03/07/86	10/03/86
Date Analyzed			10/28/87	01/27/88	01/27/88	04/26/88	07/12/88	11/12/85	03/14/86	10/06/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis										
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	660	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylons	100	NE	ND	ND	ND	ND	ND	ND	ND	ND
	NE	NE	NA	NA	NA	NA	NA	0.69(0.99)	NA	NA

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FMA = First field duplicate analysis  
 FMB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 8020 ANALYTES (METHED 802 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-1020	M4-1020	M4-1020	M4-1020	M4-1021	M4-1021	M4-1021	M4-1021	M4-1021	M4-1021
Date Sampled			08/03/87	10/08/87	01/13/88	01/13/88	04/28/88	07/15/88	11/07/88	01/26/87	01/26/87	04/27/87
Date Analyzed			08/05/87	10/09/87	01/14/88	01/14/88	04/20/88	07/20/88	11/20/88	01/29/87	01/29/87	04/29/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LDQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	0.36C(0.56)	NR	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FTA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LTA = First laboratory duplicate analysis  
 LTB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LDQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8020 ANALYTES (METHED 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	M4-1021	M4-1021	M4-1021	M4-1021	M4-1021	M4-1021	M4-1021	M4-1022	M4-1022	M4-1022
	Level	ML										
Data Sampled			10/27/87	10/27/87	01/19/88	04/21/88	04/21/88	04/21/88	07/19/88	11/07/86	01/23/87	04/27/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed			11/02/87	11/04/87	01/20/88	04/25/88	05/03/88	05/03/88	07/21/88	11/11/86	01/22/87	04/29/87
Lab			SAC	CES	SAC	SAC	CES	CES	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
NA = Nonreporting Well

RADIAN = Radian Corporation, Sacramento  
CES = Canopus Environmental Services  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Preliminary MCL	WELL NUMBER	M4-1022	M4-1022	M4-1022	M4-1022	M4-1023	M4-1023	M4-1023
Date Sampled			10/20/87	01/19/88	04/21/88	07/19/88	07/19/88	07/19/88	11/04/86	04/15/87
Date Analyzed			11/24/87	01/20/88	04/25/88	07/29/88	07/21/88	07/21/88	11/06/86	01/15/87
Lab			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Field Analysis			CES	SAC	SAC	CES	SAC	SAC	SAC	SAC
Lab Analysis							FDA	FDA		
							LDA	LDA		
Chlorobenzenes	30	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LDQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	0.31C	0.34P	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FTB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LTB - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LDQ = Limit of quantitation

P or PC = Identity previously confirmed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Well Number	M4-1023	M4-1023	M4-1023	M4-1024	M4-1024	M4-1024	M4-1024	M4-1024
Date Sampled				10/22/87	01/13/88	01/13/88	04/15/88	07/08/88	11/04/86	01/19/87	04/15/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/28/87	01/14/88	01/14/88	04/18/88	07/11/88	11/06/86	01/26/87	04/16/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis											
Lab Analysis					LDA	LDB			LDA	LDB	LDB
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	0.15	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	0.12	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	1.1	ND	ND
Total Xylenes	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	MOI	WELL NUMBER	M4-1025	M4-1025	M4-1026	M4-1026	M4-1026	M4-1026	M4-1026	M4-1026	M4-1026
Date Sampled															
Date Analyzed															
Lab															
Field Analysis															
Lab Analysis															
Chlorobenzene	30	NE													
1,3-Dichlorobenzene	130	NE													
1,2-Dichlorobenzene	130	NE													
1,4-Dichlorobenzene	(100)0.5	NE													
Benzene	.7	5													
Ethylbenzene	680	NE													
Toluene	100	NE													
Total Xylenes	NE	NE													

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

C = Analysis confirmed in second column analysis

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1027	M4-1028
Date Sampled			11/25/86	01/14/87	01/14/87	04/17/87	08/05/87	10/14/87	01/15/88	04/18/88	04/18/88	08/07/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/02/86	01/20/87	01/20/87	04/21/87	08/07/87	10/16/87	01/18/88	04/20/88	04/20/88	08/13/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis				LDA	LDB				LDA	LDB		
Chlorobenzene	30	NE	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-1028	M4-1028	M4-1028	M4-1028	M4-1028	M4-1028	M4-1028	M4-1028	M4-1028	M4-1028
	Level	MC										
Dates Sampled			10/14/87	10/14/87	01/15/88	04/18/88	07/13/88	11/11/86	11/11/86	01/08/87	01/08/87	04/29/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Dates Analyzed			10/16/87	11/09/87	01/18/88	04/20/88	07/15/88	11/19/86	11/19/86	01/13/87	01/13/87	05/01/87
Lab			SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis								FDA	FDA	FDA	FDA	
Lab Analysis								LDA	LDB			
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	600	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FIA = First field duplicate analysis  
 FIB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 CES = Caronde Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-1029	M4-1029	M4-1029	M4-1029	M4-1029	M4-1030	M4-1030	M4-1030	M4-1030	M4-1030
	Level	MCL										
Date Sampled			08/07/87	10/12/87	10/12/87	01/18/88	04/14/88	11/11/86	01/08/87	04/29/87	08/07/87	10/12/87
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDN	FDN	FDN	FDN	FDN	FDN	FDN	FDN	FDN	FDN
Lab Analysis				LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.482(0.56)

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDN - First field duplicate analysis

FDL - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NR - Not reported

NA - Not analyzed

C - Analysis confirmed in second column analysis

LOQ - Limit of quantitation

( ) - Data decision criterion (DDC). Indicates result below DDC.

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES		U.S. EPA		WELL NUMBER																
	Action Level	Primary MCL	M4-1030	M4-1030	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1031	M4-1032	
Date Sampled			01/17/88	04/14/88	11/18/86	01/08/87	04/29/87	08/10/87	10/12/87	10/12/87	10/12/87	10/12/87	10/12/87	01/17/88	04/14/88	11/19/86					
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN					
Date Analyzed			01/20/88	04/18/88	11/21/86	01/13/87	05/01/87	08/14/87	10/13/87	10/13/87	10/13/87	10/13/87	10/13/87	01/20/88	04/18/88	11/22/86					
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC					
Field Analysis																					
Lab Analysis																					
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO					
1,1,3-Trichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO					
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO					
1,4-Dichlorobenzene	(LOQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO					
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO					
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO					
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO					
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					

ALL UNITS ARE ug/l

M4 = Monitoring Well

FIA = First field duplicate analysis

FIB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	ML	Well Number	M4-1032	M4-1032	M4-1032	M4-1032	M4-1033	M4-1033	M4-1033	M4-1033
Data Sampled							01/13/87	05/01/87	08/04/87	10/09/87	01/14/88	04/13/88	07/14/88	11/12/86
Sampled By							RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed							01/19/87	05/05/87	08/07/87	10/12/87	01/15/88	04/15/88	07/15/88	11/20/86
Lab							SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	5	5	5	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NR = Not reported  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	M4-1033	M4-1033	M4-1033	M4-1033	M4-1033	M4-1033	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034
Date Sampled			10/13/87	01/12/88	01/12/88	04/15/88	04/15/88	07/13/88	11/12/86	01/08/87	04/28/87	08/10/87	10/13/87	
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Lab			10/14/87	01/13/88	01/13/88	04/20/88	04/20/88	07/14/88	11/20/86	01/13/87	04/30/87	08/14/87	10/14/87	
Field Analysis			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Lab Analysis			LDA	LDB	LDB	LDA	LDB	LDB	LDB	LDB	LDB	LDB	LDB	
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	LDA
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(100)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALL UNITS ARE ug/l														
M4 - Monitoring Well														
LDA - First Laboratory duplicate analysis														
LDB - Second Laboratory duplicate analysis														

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NR = Not reported  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-1034	M4-1034	M4-1034	M4-1034	M4-1034	M4-1035	M4-1035	M4-1035	M4-1035	M4-1035
Date Sampled				10/13/87	01/12/88	01/12/88	04/15/88	07/13/88	11/25/88	01/08/87	04/28/87	08/10/87	10/13/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/14/87	01/13/88	01/13/88	04/20/88	07/14/88	12/02/88	01/13/87	04/29/87	08/14/87	10/14/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FTD	FTD	FTD							
Lab Analysis				LDB									
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Total Xylenes	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTD = First field duplicate analysis

FTB = Second field duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DOS	U.S. EPA	Action	Primary	ML	DATE	MA-1035	MA-1036	MA-1036	MA-1036	MA-1036	MA-1036	MA-1036	MA-1036
Date Sampled														
Sampled By														
Date Analyzed														
Lab														
Field Analysis														
Lab Analysis														
Chlorobenzene	30	NE												
1,3-Dichlorobenzene	130	NE												
1,2-Dichlorobenzene	130	NE												
1,4-Dichlorobenzene	(LOQ)0.5	NE												
Benzene	.7	5												
Ethylbenzene	680	NE												
Toluene	100	NE												
Total Xylenes	NE	NE												

ALL UNITS ARE ug/l

MA = Monitoring Well  
 FIA = First field duplicate analysis  
 FIB = Second field duplicate analysis  
 LIA = First laboratory duplicate analysis  
 LIB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

ALL UNITS ARE US/L  
MW = Monitoring Well  
LDA = First Laboratory

MD = Monitoring Well  
LDA = First Laboratory duplicate analysis

**RADIAN** = Radian Corporation, Sacramento  
**SAC** = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1038	M4-1039	M4-1039
Date Sampled			11/20/86	02/15/87	04/30/87	08/04/87	10/13/87	01/15/88	04/18/88	04/18/88	07/14/88	11/20/88
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			11/24/86	01/22/87	05/04/87	08/07/87	10/16/87	01/18/88	04/21/88	04/21/88	07/18/88	11/24/88
Field Analysis			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Lab Analysis			LDB									
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	660	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	0.31(0.99)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 LDB = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER	MA-1039	MA-1039	MA-1039	MA-1040	MA-1040	MA-1040	MA-1040
Date Sampled			01/15/87	04/30/87	06/03/87	10/13/87	01/27/88	04/18/88	07/14/88	11/17/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/21/87	05/04/87	08/06/87	10/16/87	01/29/88	04/21/88	07/18/88	11/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis			LIB							
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

MA = Monitoring Well

LIB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-1040	M4-1040	M4-1040	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041
	Level	MC										
Date Sampled			10/20/87	01/20/88	04/25/88	07/20/88	11/14/86	11/14/86	01/22/87	05/06/87	08/06/87	10/14/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/23/87	01/23/88	04/27/88	07/22/88	11/20/86	11/20/86	01/28/87	05/11/87	08/10/87	10/18/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
												LDA
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LDQ) 0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	.7	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Ethylbenzene	680	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Toluene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total Xylenes	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NE = Nothing analyzed

NA = Not analyzed

LDQ = Limit of quantitation

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1041	M4-1042	M4-1042	M4-1042	M4-1042	M4-1042
Date Sampled			10/14/87	10/14/87	10/14/87	01/18/88	04/19/88	07/15/88	11/21/86	01/22/87	05/06/87	08/06/87	10/14/87
Date Analyzed			11/09/87	10/18/87	10/18/87	01/19/88	04/22/88	07/18/88	11/25/86	01/28/87	05/11/87	08/10/87	10/18/87
Lab			CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB									
Lab Analysis													
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Ceramite Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1042	M4-1042	M4-1043	M4-1043	M4-1043	M4-1043	M4-1043	M4-1043	M4-1043	M4-1043
Date Sampled			04/19/88	07/15/88	11/21/86	01/22/87	05/06/87	05/06/87	08/06/87	10/14/87	01/18/88	04/19/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/21/88	07/19/88	11/25/86	01/28/87	05/11/87	05/11/87	08/10/87	10/18/87	01/19/88	04/22/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												FDA
Lab Analysis							LDA	LDB		LDA	LDB	
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-1043	M4-1043	Q4-42	Q4-44	WELL NUMBER	Q4-45	Q4-46	Q4-47	Q4-48	Q4-135	Q4-136	Q4-136
Date Sampled			04/19/88	07/15/88	10/16/86	10/16/86	10/16/86	10/16/86	10/16/86	10/16/86	10/16/86	10/17/86	10/17/86	10/17/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/22/88	07/18/88	10/20/86	10/20/86	10/20/86	10/20/86	10/20/86	10/20/86	10/20/86	10/21/86	10/21/86	10/21/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB											
Lab Analysis														
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6C	0.78C(1.0)	0.72C(1.0)

ALL UNITS ARE ug/l  
M4 = Monitoring Well 1

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
OW = Off base residential well

MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	OH-137	OH-139	OH-140	OH-141	OH-142	OH-142	OH-144	OH-145	OH-146	OH-147
Date Sampled			10/17/86	10/17/86	10/17/86	10/17/86	10/30/86	10/30/86	10/29/86	10/29/86	10/14/86	10/14/86
Date Analyzed			10/21/86	10/21/86	10/21/86	10/21/86	11/03/86	11/03/86	10/31/86	10/31/86	10/14/86	10/14/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	(LD)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	100	NE	0.80C(1.0)	1.6C	0.36C(1.0)	ND	ND	ND	ND	ND	ND	ND
	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
OH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LDQ = Limit of quantitation  
( ) = Data decision criterion (DEC). Indicates result below DEC.  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			Q4-148	Q4-150	Q4-151	Q4-152	Q4-154	Q4-155	Q4-156	Q4-157	Q4-158	Q4-162	Q4-183
Date Sampled			10/14/86	10/14/86	10/14/86	10/17/86	10/17/86	10/17/86	10/17/86	10/17/86	10/17/86	10/20/86	01/30/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/15/86	10/15/86	10/15/86	10/21/86	10/21/86	10/21/86	10/21/86	10/21/86	10/21/86	10/21/86	02/02/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis								LDA		LDB			
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LDQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	0.94C(1.0)	ND	ND	1.5C	0.66C(1.0)	0.79C(1.0)	0.53C(1.0)	1.9C	0.40C(1.0)	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
GM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LDQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS U.S. EPA		Action		Primary		MCL		Well Number		Date		Lab		Date		Lab	
	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
Date Sampled																		
Date Analyzed																		
Lab																		
Field Analysis																		
Lab Analysis																		
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene	130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene	(LOQ)0.5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	.7	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Ethylbenzene	680	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Toluene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Total Xylenes	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
CM = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

[illegible]

**ALL UNITS ARE ug/l**

OW = Off base residential wall

**RADIAN = RadLan Corporation, Sacramento**

**SAC = Radlan Analytical Services, Sacramento**

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER											
				QM-338	QM-340	QM-340	QM-341	QM-341	QM-341	QM-352	QM-354	QM-354	QM-355	QM-358	
Date Sampled				01/19/87	10/15/86	01/23/87	10/15/86	01/26/87	01/26/87	01/26/87	10/14/86	10/14/86	10/14/86	10/14/86	10/14/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				01/21/87	10/17/86	01/29/87	10/20/86	01/30/87	01/30/87	01/30/87	10/15/86	10/15/86	10/15/86	10/15/86	10/15/86
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis								FDA	FDA	FDB	LDA	LDB			FDA
Lab Analysis															
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOD)0.5 K		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	1.1C	ND	ND	0.76C(1.0)	ND	ND	ND	0.43C(1.0)	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	U.S. EPA		WELL NUMBER		U.S. EPA		WELL NUMBER		U.S. EPA		WELL NUMBER		U.S. EPA		WELL NUMBER		U.S. EPA		WELL NUMBER	
	Action	Level	Primary	MCL	Action	Level	Primary	MCL	Action	Level	Primary	MCL	Action	Level	Primary	MCL	Action	Level	Primary	MCL
1" x 6" Sampled			10/14/86		10/15/86		10/22/86		10/23/87		10/23/87		10/23/87		10/23/87		10/23/87		10/23/87	
Sampled By			RADIAN		RADIAN		RADIAN		RADIAN		RADIAN		RADIAN		RADIAN		RADIAN		RADIAN	
Date Analyzed			10/15/86		10/17/86		10/24/86		01/29/87		01/29/87		01/29/87		01/29/87		01/29/87		01/29/87	
Lab			SAC		SAC		SAC		SAC		SAC		SAC		SAC		SAC		SAC	
Field Analysis			FTB																	
Lab Analysis																				
Chlorobenzene	30	NE	ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-Dichlorobenzene	130	NE	ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2-Dichlorobenzene	130	NE	ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	.7	5	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Ethylbenzene	600	NE	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Toluene	100	NE	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Total Xylenes	NE	NE	NA		NA		NA		NA		NA		NA		NA		NA		NA	

ALL UNITS #/G/g/l

FTB = Second field duplicate analysis

LDB = Second laboratory duplicate analysis

CW = Off base residential well

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Priority MCL	WELL NUMBER							
				QA-472	QA-520	QA-537	QA-537	QA-543	QA-544	QA-544	QA-544
Date Sampled				10/22/86	10/23/86	10/20/86	01/30/87	10/13/86	10/28/86	10/28/86	10/28/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/24/86	10/27/86	10/21/86	02/02/87	10/14/86	11/13/86	10/30/86	10/30/86
Lab				SAC	SAC	SAC	SAC	SAC	ELI	SAC	SAC
Field Analysis									LDA	LDA	LDB
Lab Analysis											
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

EDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OA = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	OH-620	OH-620	OH-621	OH-622	OH-623	OH-624	OH-625	OH-626	OH-627	OH-627	OH-628
Date Sampled			10/16/86	10/16/86	10/28/86	10/16/86	10/16/86	10/20/86	10/20/86	10/20/86	10/16/86	10/16/86	10/20/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/20/86	10/20/86	10/30/86	10/20/86	10/20/86	10/21/86	10/21/86	10/21/86	10/20/86	10/20/86	10/21/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB							FDA	FDB	
Lab Analysis													
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Priority	QM-630	QM-630	QM-631	QM-632	QM-633	QM-637	QM-639	QM-639	QM-640	QM-640
Date Sampled			10/20/86	10/20/86	10/20/86	10/20/86	10/20/86	10/21/86	10/21/86	10/21/86	10/21/86	10/21/86
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB								
Lab Analysis												
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	0.73C(1.0)	NA	NA

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
QM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	Q4-641	Q4-641	Q4-662	Q4-662	Q4-663	Q4-666	Q4-666	Q4-667	Q4-667	Q4-810
Date Sampled			10/21/86	01/22/87	10/27/86	01/21/87	10/13/86	10/13/86	01/21/87	10/13/86	01/21/87	10/13/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/23/86	01/28/87	10/28/86	01/26/87	10/14/86	10/14/86	01/26/87	10/14/86	01/26/87	10/14/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												FDA
Lab Analysis												
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	(LQ)0.5	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER	04-820	04-828	04-829	04-869	04-889	04-899	04-892	04-892
Date Sampled											
Sampled By											
Date Analyzed											
Lab											
Field Analysis											
Lab Analysis											
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	0.39C(1.0)	NA	NA	NA

ALL UNITS ARE ug/l

 FDA = First field duplicate analysis  
 FIB = Second field duplicate analysis  
 CM = Off base residential well

 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

 ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Primary	U.S. EPA	WELL NUMBER	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
1,3-Dichlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylons	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALL UNITS ARE ug/l																
LOA = First laboratory duplicate analysis																
OW = Off base residential well																

ND = Nothing detected  
NA = Not analyzed  
C = Analysis confirmed in second column analysis  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	CM-898	CM-898	CM-899	CM-899	CM-899	CM-905	CM-906	CM-906	CM-909	CM-910
	Level	MCL										
Data Sampled			10/21/86	01/22/87	10/21/86	01/22/87	01/22/87	10/27/86	10/30/86	10/30/86	10/27/86	10/29/86
Data Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			10/23/86	01/27/87	10/23/86	01/28/87	01/28/87	10/28/86	11/03/86	11/03/86	10/28/86	10/31/86
Field Analysis			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Lab Analysis			LDB	LDB	LDB	LDB	LDB	FDA	FDA	FDA	FDA	FDA
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(100)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	0.70C(1.0)	ND	0.64C(1.0)	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LDQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1986)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER							
				OH-910	OH-911	OH-914	OH-914	OH-924	OH-924	OH-924	OH-924
Date Sampled				10/29/86	10/13/86	10/13/86	10/13/86	10/28/86	10/28/86	10/28/86	01/21/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/31/86	10/14/86	10/14/86	10/14/86	10/29/86	10/29/86	10/29/86	01/27/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FTB				FTB	FTB	FTB	FTB
Lab Analysis						LDA	LDB			LDA	LDB
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE		ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA

ALL LIMITS ARE ug/l

FTB = First field duplicate analysis  
 LDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Burela Laboratories, Inc.

ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Q4-925	Q4-925	Q4-925	Q4-945	Q4-946	Q4-946	Q4-954	Q4-954	Q4-954	Q4-998	Q4-998
Date Sampled			10/27/86	10/27/86	01/21/87	01/30/87	10/28/86	01/23/87	10/28/86	01/30/87	01/30/87	10/23/86	01/23/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/28/86	10/28/86	01/27/87	02/02/87	10/29/86	01/29/87	10/29/86	02/02/87	02/02/87	10/27/86	01/29/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis			LDA	LDB									
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	(LQ)0.5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

NE = First field duplicate analysis  
 ND = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Primary	ML	ML	ML	ML	ML	ML	ML	ML	ML	ML	ML	ML	ML	ML
Date Sampled																
Sampled By																
Date Analyzed																
Lab																
Field Analysis																
Lab Analysis																
Chlorobenzene	30	NE														
1,3-Dichlorobenzene	130	NE														
1,2-Dichlorobenzene	130	NE														
1,4-Dichlorobenzene	(100)0.5	NE														
Benzene	.7	5														
Ethylbenzene	680	NE														
Toluene	100	NE														
Total Xylenes	NE	NE														

ALL UNITS ARE ug/l

FOA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LIA = First laboratory duplicate analysis  
 LIB = Second laboratory duplicate analysis  
 CW = Off base residential well

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 C = Analysis confirmed in second column analysis  
 LOQ = Limit of quantization  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8020 ANALYTES (METHOD 602 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER	
	Action Level	Primary MCL	04-1238	04-1238
Date Sampled			10/29/86	10/29/86
Sampled By			RADIAN	RADIAN
Date Analyzed			10/31/86	10/31/86
Lab			SAC	SAC
Field Analysis			FDB	FDB
Lab Analysis			LDA	LDB
Chlorobenzene	30	NE	ND	ND
1,3-Dichlorobenzene	130	NE	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND
1,4-Dichlorobenzene	(LOQ)0.5	NE	ND	ND
Benzene	.7	5	ND	ND
Ethylbenzene	680	NE	ND	ND
Toluene	100	NE	ND	ND
Total Xylenes	NE	NE	NA	NA

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 CH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

**RADIAN**  
CORPORATION

RESULTS FOR U.S. EPA METHOD 603

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 603 ANALYTES (SEPTEMBER 1984-OCTOBER 1984)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-4	M4-6	M4-7	M4-9	M4-10	M4-11	M4-12	M4-14	M4-15	M4-16D	M4-16S
Date Sampled			10/02/84	10/01/84	09/21/84	09/30/84	09/18/84	09/19/84	09/20/84	09/20/84	09/18/84	09/24/84	09/26/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/08/84	10/05/84	10/02/84	10/04/84	09/28/84	10/01/84	10/02/84	10/01/84	09/28/84	10/02/84	10/03/84
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis													
Lab Analysis													
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 603 ANALYTES (SEPTEMBER 1984-OCTOBER 1984)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-17D	M4-17S	M4-18D	M4-18D	M4-18D	M4-18S	M4-19D	M4-19S	M4-20D	M4-20S
Data Sampled			09/26/84	09/13/84	09/25/84	09/25/84	09/25/84	09/29/84	09/13/84	09/14/84	09/19/84	09/30/84
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed			10/03/84	09/24/84	10/02/84	10/02/84	10/03/84	10/05/84	09/25/84	09/27/84	10/01/84	10/05/84
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis						FDA	FDA					
Lab Analysis							FTB					FTB
Acrolein	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrylonitrile	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

NO = Nothing detected

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 603 ANALYTES (SEPTEMBER 1984-OCTOBER 1984)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			M4-21S	M4-22D	M4-22D	M4-22S	M4-23D	M4-23S	M4-24D	M4-24S	M4-25D	M4-25S	M4-26D
Date Sampled			09/17/84	09/20/84	09/20/84	09/21/84	09/26/84	09/29/84	09/27/84	09/12/84	09/25/84	09/29/84	09/27/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			09/27/84	10/01/84	10/01/84	10/02/84	10/03/84	10/04/84	10/04/84	09/26/84	10/02/84	10/05/84	10/04/84
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis													
Lab Analysis			FDA	FDB									
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

RAS - Radian Analytical Services

ND - Nothing detected

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 603 ANALYTES (SEPTEMBER 1984-OCTOBER 1984)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			M4-26S	M4-27D	M4-27D	M4-27S	M4-28D	M4-29D	M4-30S	M4-31S	M4-33S	M4-36S		
Date Sampled			09/29/84	10/01/84	10/01/84	09/12/84	09/26/84	10/01/84	09/18/84	09/25/84	09/18/84	09/17/84		
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed			10/04/84	10/05/84	10/08/84	09/25/84	10/03/84	10/05/84	09/28/84	10/02/84	09/28/84	09/27/84		
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS		
Field Analysis				FDA	FDB			FTA						
Lab Analysis									FDB					
Acrolein	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		
Acrylonitrile	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO		

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FD = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

NO = Nothing detected

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 603 ANALYTES (SEPTEMBER 1984-OCTOBER 1984)

Parameter	DHS Action Level	U.S. EPA Priority MCL	M4-38D	M4-40S	M4-41S	M4-42S	WELL NUMBER		M4-43S	M4-44S	M4-45S	M4-46S	M4-47S
Date Sampled			09/14/84	09/30/84	09/24/84	09/28/84	09/13/84	09/21/84	09/19/84	09/29/84	09/29/84	09/29/84	10/01/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			09/25/84	10/04/84	10/02/84	10/04/84	09/25/84	10/02/84	10/01/84	10/05/84	10/05/84	10/05/84	10/05/84
Lab			RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis													
Lab Analysis													
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

**RADIAN**  
CORPORATION

RESULTS FOR U.S. EPA METHOD 604

THIS PAGE INTENTIONALLY BLANK

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	DES		U.S. EPA		WELL NUMBER											
	Action	Level	Primary	ML	M4-10	M4-11	M4-12	M4-14	M4-15	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-20D	M4-24D
Date Sampled					07/22/88	07/25/88	07/26/88	07/22/88	07/22/88	01/29/87	01/22/88	01/22/88	01/23/87	01/23/87	01/23/87	04/21/88
Sampled by					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					08/01/88	08/02/88	08/02/88	08/01/88	08/01/88	02/12/87	02/04/88	02/04/88	02/12/87	02/12/87	02/12/87	05/04/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis																
Lab Analysis										LDA	LDB	LDA	LDB	LDB	LDB	
2,4,6-Trichlorophenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Para-chlorophenol	30	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

C = Analysis confirmed in second column analysis

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		M4-270		M4-270		M4-270		M4-335		M4-335		M4-335		M4-335	
	Action	Primary	ML															
Date Sampled				04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88	04/08/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88	04/18/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis																		
Lab Analysis				LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
2,4,6-Trichlorophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chlorophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dichlorophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dimethylphenol	400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dinitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dinitrophenol	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Phenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Chloro-3-methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

M4 - Monitoring Well

FA - First field duplicate analysis

FB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Central Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

C - Analysis confirmed in second column analysis

( ) - Data decision criterion (DDC). Indicates result below DDC.

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	IHS		U.S. EPA		WELL NUMBER		M4-52		M4-54		M4-55		M4-55		M4-55	
	Action	Level	Primary	M4-365	M4-415	M4-445	M4-445	M4-52	M4-54	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55
Date Sampled				04/16/87	04/16/87	04/18/88	01/12/87	01/22/88	04/07/88	04/27/87	04/20/87	10/14/87	10/14/87	10/14/87	04/08/88	
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed				05/06/87	05/06/87	02/04/88	02/11/87	02/04/88	04/18/88	05/11/87	05/05/87	10/29/87	10/29/87	11/09/87	04/18/88	
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CES	SAC	
Field Analysis				LDA	LDB					FDA	FDA	FDA	FDA	FDA	FDA	
Lab Analysis																
2,4,6-Trichlorophenol	NE	NE	NE	NO	NO	NO	NO	1.20(2.11)	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Peracetylphenol	30	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NE	2.0	2.5	2.4	2.4	NO	1.5	1.8	1.8	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	0.57	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Caronde Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

C = Analysis confirmed in second column analysis

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	DES	U.S. EPA Action Level	Primary ML	WELL NUMBER									
				M4-55	M4-57	M4-59	M4-60	M4-61	M4-62	M4-63	M4-70	M4-70	M4-70
Date Sampled				04/08/88	04/28/87	04/21/87	01/13/87	01/29/87	01/19/88	04/15/88	01/29/87	01/07/88	01/07/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				04/18/88	05/11/87	05/05/87	02/11/87	02/12/87	01/22/88	05/06/88	02/12/87	01/22/88	01/22/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDB	FDA	FDA							
Lab Analysis													
2,4,6-Trichlorophenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	50	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE		ND	3.3	0.32	ND	2.6	ND	ND	2.9	ND	ND
4-Chloro-3-methylphenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LIB - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	IFS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-71	M4-74	M4-75	M4-75	M4-75	M4-76	M4-88	M4-88	M4-88	M4-89
Date Sampled			07/20/88	07/26/88	04/21/88	04/21/88	07/20/88	07/21/88	01/06/87	01/21/88	01/21/88	01/06/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/01/88	08/02/88	05/04/88	05/04/88	08/01/88	08/01/88	02/11/87	02/04/88	02/11/87	02/11/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis					LDA	LDB				FDA	FDB	LDB
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	1.1C	1.1C	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	0.86	2.3	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

C = Analysis confirmed in second column analysis

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYSES

Parameter	Date Sampled Sampled By Date Analyzed Lab	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-91	M4-91	M4-91	M4-92	M4-100	M4-101	M4-101	M4-101	M4-101	M4-102
Date Sampled	01/20/87												
Sampled By	RADIAN												
Date Analyzed	02/12/87												
Lab	SAC												
Field Analysis													
Lab Analysis													
2,4,6-Trichlorophenol	NE	NE											
2-Chlorophenol	NE	NE											
2,4-Dichlorophenol	NE	NE											
2,4-Dimethylphenol	400	NE											
2-Nitrophenol	NE	NE											
4-Nitrophenol	NE	NE											
2,4-Dinitrophenol	NE	NE											
2,4,6-Trinitrophenol	30	NE											
Phenol	NE	NE											
4-Chloro-3-methylphenol	NE	NE											
4,6-Dinitro-2-methylphenol	NE	NE											

ALL UNITS ARE ug/l

MJ = Monitoring Well

FA = First field duplicate analysis

FB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

C = Analysis confirmed in second column analysis

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYSES

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-102	M4-103	M4-103	M4-104	M4-105	M4-110	M4-112	M4-128	M4-128	M4-128
Date Sampled			10/19/87	08/04/87	10/19/87	10/21/87	04/26/88	04/26/88	04/26/88	01/16/87	04/16/87	01/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/29/87	08/21/87	10/29/87	11/03/87	05/05/88	05/05/88	05/05/88	02/12/87	05/06/87	01/22/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	1.5C	NO	NO	NO	NO	NO	2.8	1.5	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CES = Concrete Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
C = Analysis confirmed in second column analysis  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	U.S. EPA Action Level	Primary MCL	M4-128	M4-129	M4-129	M4-130	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132
Date Sampled			07/12/88	07/16/87	01/13/88	01/16/87	01/21/87	05/15/87	07/29/87	10/24/87	10/24/87	01/22/88
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis												
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

Analytical data for M4-137, M4-140 and M4-141 appear under M4-137, M4-140 and M4-141

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

C = Analysis confirmed in second column analysis

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 604 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		DATE		ANALYST		DATE		ANALYST		DATE		ANALYST	
	Action	Level	Primary	MCL	M4-1005	M4-1012	M4-1012	M4-1012	M4-1013	M4-1014	M4-1021	M4-1022	M4-1022	M4-1037	M4-1037	M4-1038
Date Sampled					04/16/87	07/27/87	10/26/87	10/26/87	04/20/87	04/27/88	10/27/87	10/20/87	10/20/87	08/12/87	10/13/87	08/04/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					05/06/87	08/04/87	11/06/87	11/06/87	05/05/87	05/05/88	11/12/87	10/22/87	10/22/87	08/21/87	10/29/87	08/21/87
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FTA											
Lab Analysis																
2,4,6-Trichlorophenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	30		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE		NE		0.76	2.6C	ND	ND	1.7	ND	ND	ND	ND	1.5C	ND	0.94C
4-Chloro-3-methylphenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTA = First field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canine Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

C = Analysis confirmed in second column analysis

NE = Not established

MD = Off base residential wall  
MD = Monitoring Well

MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	04-340	04-340	04-358	04-358	04-359	04-359	04-360	04-363	04-364	04-654
Date Sampled			07/08/86	07/08/86	07/09/86	10/14/86	01/22/86	01/22/86	01/22/86	01/23/86	10/28/86	04/14/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/18/86	07/18/86	07/18/86	10/29/86	02/11/86	02/11/86	02/11/86	02/08/86	10/30/86	05/07/86
Lab			SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS	SAC	RAS
Field Analysis			LDA	LDB			RTB	RTB			ELI	
Lab Analysis												
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE	0.32	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	2.3	1.3	1.7	2.08	1.1	3.5	1.6	0.6	0.64	1.7C
4-Chloro-3-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

RTB = First field duplicate analysis  
 RTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 RAS = Radian Analytical Service  
 SAC = Radian Analytical Service, Sacramento  
 ELI = Eureka Laboratories, Inc.

ND = Nothing detected  
 B = Compound detected in Laboratory blank - not edited  
 C = Analysis confirmed in second column analysis  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYSES

Parameter	U.S. EPA Action Level	Primary ML	QA-810	QA-810	QA-810	QA-810	QA-810	QA-829	QA-868	QA-906	QA-906	QA-910	QA-911
Date Sampled			01/21/86	10/13/86	10/13/86	10/13/86	10/27/86	10/31/86	07/23/86	10/30/86	10/30/86	10/29/86	01/23/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/07/86	10/28/86	10/28/86	10/28/86	10/30/86	11/13/86	08/05/86	11/03/86	11/03/86	11/03/86	02/08/86
Lab			RAS	SAC	SAC	SAC	SAC	ELI	SAC	SAC	SAC	SAC	RAS
Field Analysis				FDA	FDA	FDA							
Lab Analysis				LDA	LDA	LDA	LDA						
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	2.0	1.08	1.58	0.85	1.9	NO	0.86	1.1	0.48	0.97	0.4
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ELI = Eureka Laboratories, Inc.

ND = Nothing detected

B = Compound detected in laboratory blank - not edited

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 604 ANALYTES

Parameter	U.S. EPA		WELL NUMBER							
	Action	Primary	CM-921	CM-924	CM-924	CM-924	CM-994	CM-998	CM-1238	
Date Sampled			01/23/86	10/28/86	10/31/86	10/31/86	07/10/86	07/10/86	10/29/86	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			02/08/86	10/30/86	11/13/86	11/13/86	07/17/86	07/17/86	11/03/86	
Lab			RAS	SAC	ELI	ELI	SAC	SAC	SAC	
Field Analysis										
Lab Analysis					LDA	LDB				
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	
Phenol	NE	NE	NO	0.94	NO	NO	NO	2.7	NO	
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	

ALL UNITS ARE ug/l

 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 CM = Off base residential well

 RADIAN = Radian Corporation, Sacramento  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

 NO = Nothing detected  
 NE = Not established

**RADIAN**  
CORPORATION

RESULTS FOR U.S. EPA METHOD 624

THIS PAGE INTENTIONALLY BLANK

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	U.S. EPA		WELL NUMBER										M4-4
	Action Level	Primary MCL	M4-1	M4-2	M4-8	M4-11	M4-12	M4-13	M4-17	M4-18	M4-28	M4-29	
Date Sampled			01/29/82	01/12/82	01/12/82	01/12/82	01/12/82	01/12/82	01/12/82	01/12/82	01/12/82	01/12/82	03/31/82
Sampled By			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed													
Lab			CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
Field Analysis													
Lab Analysis													
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	175	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	1500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(chloromethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
M4 = Base production well

ES = Engineering Science, Inc.  
CAL = California Analytical Labs  
ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-6	M4-7	M4-7	M4-8	M4-9	M4-9	M4-10	M4-11	M4-11	M4-12
Date Sampled	ES	ES	03/30/82	03/17/82	03/29/82	03/31/82	03/31/82	03/31/82	03/30/82	03/30/82	03/30/82	04/29/82
Sampled By	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	20	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	3700	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	19900	63000	4200
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	170	250	2500
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	180	200	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	40	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	4300	12000	520
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,2-Dichloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	24	30	29	61	ND	225	140	2100	5000	900
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	10	ND	18
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(chloromethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	80	ND	10

ALL UNITS ARE ug/l  
MW = Monitoring Well

ES = Engineering Science, Inc.  
CAL = California Analytical Labs

ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	U.S. EPA		WELL NUMBER		M4-15		M4-16D		M4-16S		M4-16S		M4-17D	
	Action Level	Primary MCL	M4-13	M4-14	M4-14	M4-15	M4-16D	M4-16D	M4-16S	M4-16S	M4-16S	M4-16S	M4-17D	M4-17D
Date Sampled	03/30/82	ES	08/18/82	03/30/82	08/18/82	04/29/82	06/16/82	08/17/82	06/16/82	06/16/82	06/16/82	06/16/82	06/16/82	06/16/82
Sampled By	ES		ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed	CAL		CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
Lab														
Field Analysis														
Lab Analysis														
Vinyl chloride	2	1	NO	25	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	3000	NO	5000	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	780	4600	17000	5980	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	110	100	225	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	6	130	200	135	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	NO	NO	120	NO	20	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	68	8700	2300	2200	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	230	5800	11000	2800	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	20	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrolein	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrylonitrile	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	680	NO	NO	NO	NO	NO	NO	NO	NO
Bis(chloromethyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl chloride	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl bromide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dichlorodifluoromethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	50	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

ES = Engineering Sciences, Inc.  
CAL = California Analytical Labs

ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-170	M4-175	M4-175	M4-180	M4-180	M4-185	M4-185	M4-190	M4-190	M4-195
Date Sampled			08/17/82	06/16/82	08/17/82	06/15/82	08/16/82	06/15/82	08/16/82	04/28/82	08/16/82	08/16/82
Sampled By			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed												
Lab			CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
Field Analysis												
Lab Analysis												
Phyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	3.6	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triser-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclorin	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(chloromethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS: #/G/L  
 NE = Monitoring Well  
 RADIANT = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 ND = Nothing detected  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-19S	M4-20D	M4-20D	M4-20S	M4-21D	M4-21D	M4-21S	M4-21S	M4-22D	M4-22D
Date Sampled			08/09/83	04/28/82	08/11/82	05/25/82	08/11/82	06/15/82	06/15/82	08/13/82	04/28/82	08/13/82
Sampled By			RADIAN	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed			08/29/83									
Lab			RAS	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
Field Analysis												
Lab Analysis												
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	4	NE	3.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	4.5	ND	ND	ND	ND	ND	ND
Bis(chloromethyl)ether	NE	NE	ND	ND	ND	220	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	440	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Sciences, Inc.  
CAL = California Analytical Labs  
RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-225	M4-225	M4-225	M4-240	M4-240	M4-240	M4-24S	M4-24S	M4-24S	M4-25D
Date Sampled			06/04/82	08/13/82	04/28/82	08/13/82	04/28/82	08/12/82	04/28/82	08/12/82	08/12/82	06/15/82
Sampled By			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed												
Lab			CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
Field Analysis												
Lab Analysis												
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	6	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	8	16	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrolein	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrylonitrile	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(chloromethyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl chloride	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl bromide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dichlorodifluoromethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

ES = Engineering Science, Inc.  
CAL = California Analytical Labs

NO = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-250	M4-255	M4-260	M4-265	M4-26S	M4-27D	M4-27D	M4-27S	M4-27S	
Date Sampled			08/12/82	06/15/82	08/12/82	04/28/82	08/11/82	06/16/82	08/11/82	04/28/82	08/12/82	08/12/82
Sampled By			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed												
Lab			CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
Field Analysis												
Lab Analysis												
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	15
Dibromochloromethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofum	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(chloromethyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

 ALL UNITS ARE ug/l  
 MW = Monitoring Well

 ES = Engineering Science, Inc.  
 CAL = California Analytical Labs  
 ND = Nothing detected  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	U.S. EPA		WELL NUMBER		DATE		ANALYST		DATE		ANALYST		DATE		ANALYST		DATE		ANALYST	
	Action	Level	Primary	MCL	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B	M4-2B
Date Sampled					06/16/82	08/17/82	06/16/82	04/28/82	08/16/82	06/16/82	08/16/82	06/16/82	08/16/82	06/16/82	08/16/82	06/16/82	08/16/82	06/16/82	08/16/82	06/16/82
Sampled By					ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed																				
Lab					CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL
Field Analysis																				
Lab Analysis																				
Vinyl chloride	2	1	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	20	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloromethane	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichlorocyclopentane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloromethane	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichlorocyclopentane	67	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofluoromethane	100	100	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrylonitrile	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	7	5	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(chloromethyl)ether	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl chloride	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl bromide	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dichlorodifluoromethane	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 ES = Engineering Science, Inc.  
 CAL = California Analytical Labs  
 NE = Nothing detected  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	DES Action Level	U.S. EPA Primary MCL	M4-33S	M4-36S	M4-37	M4-38D	M4-38D	M4-38D	M4-39S	M4-40S	M4-41S	M4-42S	M4-43S
Date Sampled			09/29/82	09/29/82	09/28/82	09/27/82	08/09/83	10/27/83	09/14/82	09/29/82	09/14/82	09/27/82	09/14/82
Sampled By			ES	ES	ES	ES	RADIAN	RADIAN	ES	ES	ES	ES	ES
Date Analyzed							08/22/83	12/08/83					
Lab			CAL	CAL	CAL	CAL	RAS	RAS	CAL	CAL	CAL	CAL	CAL
Field Analysis													
Lab Analysis													
Vinyl chloride	2	1	NO	NO	NO	NO	NO	420	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	18	NO	NO	NO	NO	NO
Trichlorofluoromethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	570	2000	NO	NO	5	NO	NO
1,1-Dichloroethene	20	NE	NO	NO	NO	NO	130	440	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	120	450	NO	NO	10	NO	NO
Chloroform	100	100	5	NO	NO	NO	NO	17	NO	NO	NO	NO	NO
1,2-Dichloroethene	1	5	NO	NO	NO	NO	NO	100	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	120	170	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	2000	5	NO	NO	52	140	NO	5	20	NO	NO
Dibromochloromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	27	130	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofluoromethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	2.8	3.2	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrolein	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acrylonitrile	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(chloromethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Brylfluorene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl chloride	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methyl bromide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dichlorodifluoromethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	60	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
CAL = California Analytical Labs  
RAS = Radian Analytical Services

NO = Nothing detected  
NE = Not established

[illegible]

ALL UNITS ARE ug/l

**RADIAN** = Radlan Corporation, Sacramento  
**IES** = Engineering Science, Inc.  
**CAL** = California Analytical Labs  
**RAS** = Radlan Analytical Services

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			QA-136	QA-148	QA-155	QA-162	QA-217	QA-352	QA-354	QA-355	QA-356	QA-361	QA-363
Date Sampled			01/21/86	01/21/86	04/14/86	06/28/83	04/28/83	06/27/83	06/27/83	06/27/83	06/27/83	06/28/83	06/28/83
Sampled By			RADIAN	RADIAN	RADIAN	RAS	CRACB	CRACB	CRACB	CRACB	CRACB	RAS	RAS
Date Analyzed			01/28/86	01/28/86	04/24/86	07/06/83	05/04/83	07/05/83	07/05/83	07/05/83	07/05/83	07/06/83	07/06/83
Lab			RAS	RAS	SAC	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis													
Lab Analysis			LDA										
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropene	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	NE	NE	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(chloromethyl) ether	NE	NE	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoroethene	NE	NE	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

 LDA = First laboratory duplicate analysis  
 OM = Off base residential well

 RADIAN = Radian Corporation, Sacramento  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			CM-537	CM-541	CM-542	CM-634	CM-666	CM-899	CM-903	CM-908	CM-909	CM-910	CM-912	
Date Sampled			06/28/83	06/20/83	06/20/83	06/30/83	06/30/83	04/16/86	06/20/83	04/28/83	06/30/83	06/30/83	06/30/83	
Sampled By			SCHD	CM4QCB	CM4QCB	CM4QCB	CM4QCB	RADIAN	CM4QCB	CM4QCB	CM4QCB	CM4QCB	CM4QCB	
Date Analyzed			07/06/83	07/05/83	07/05/83	07/07/83	07/07/83	04/24/86	07/05/83	05/04/83	07/07/83	07/07/83	07/07/83	
Lab			RAS	RAS	RAS	RAS	RAS	SAC	RAS	RAS	RAS	RAS	RAS	
Field Analysis														
Lab Analysis														
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,1-Tetrachloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethane	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dibromodichloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acrolein	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Benzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bis(chloromethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dichlorodifluoroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

ALL UNITS #6 ug/l  
CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SCHD = Sacramento County Health Department  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NE = Not established



MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 624 ANALYTES (JANUARY 1982-JUNE 1983)

Parameter	DHS U.S. EPA		WELL NUMBER					
	Action Level	Primary MCL	04-914	04-916	04-918	04-918	04-920	04-938
Date Sampled			06/30/83	06/30/83	06/30/83	03/26/84	06/30/83	06/20/83
Sampled By			CRQCB	CRQCB	CRQCB	CRQCB	CRQCB	CRQCB
Date Analyzed			07/07/83	07/07/83	07/07/83	04/01/84	07/07/83	07/05/83
Lab			RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis								
Lab Analysis								
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	1,3	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND
Bromofane	100	100	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND
Acetone	NE	NE	ND	ND	ND	ND	ND	ND
Acrylonitrile	NE	NE	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND
Bis(chloromethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND
Methyl chloride	NE	NE	ND	ND	ND	ND	ND	ND
Methyl bromide	NE	NE	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	NE	NE	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
CW = Off base residential well

ND = Nothing detected  
NE = Not established

RAS = Radian Analytical Services

**RADIAN**  
CORPORATION

RESULTS FOR METHOD 8240

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-73	EA-83	EA-83
Date Sampled			10/24/87	01/06/88	04/06/88	07/01/88	07/01/88	07/01/88	07/01/88	07/01/88	10/26/87	01/06/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			11/01/87	01/19/88	04/12/88	07/15/88	07/15/88	07/15/88	07/15/88	07/15/88	11/01/87	01/19/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FDA	FDA	FDA	FDA	FDA	FDA	
Lab Analysis						LDA	LDA	LDA	LDA	LDA		
Chloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	1100	1400	1000	950	980	1000	1000	1700	1500	ND
Chloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethers	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethers	6	7	15000	10000	8200	7300	7500	7700	7700	9200	8400	610
1,1-Dichloroethers	20	NE	1700	1200	750	690	710	720	720	650	650	ND
Total 1,2-Dichloroethers	16	NE	2700	2100	1400	1100	1100	1100	1100	1200	1100	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethers	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethers	200	200	1400	1500	950	880	870	930	930	880	41	37
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethers	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethers	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethers	5	5	1400	1400	1400	1200	1200	1200	1200	1600	73	81
Dibromochloroethers	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethers	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloroethers	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethers	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethers	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	790	640	350	ND	280	280	280	ND	ND	ND
Acetone	NE	NE	13000	22000	12000	15000	15000	16000	16000	5800	ND	ND
Carbon disulfide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	4700	15000	3800	3400	3400	3500	3500	2700	ND	ND

ALL UNITS ARE ug/l

EA = Extraction Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LIB = Second laboratory duplicate analysis  
 Analytical data for EA-63 and EA-69 appear under MH-63 and MH-69

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in laboratory blank - not edited  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 824 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	BM-73	BM-73	BM-73	BM-73	BM-73	BM-73	BM-73	BM-73	BM-83	BM-83
Date Sampled			10/24/87	01/06/88	07/01/88	07/01/88	07/01/88	07/01/88	10/28/88	10/28/88	10/24/87	01/06/88
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/01/87	01/19/88	07/15/88	07/15/88	07/15/88	07/15/88	11/08/88	11/08/88	11/01/87	01/19/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Vap/1 acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-bromone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-methyl-2-pentane	NE	NE	NO	6100B	3300	3100	3300	3500	2800	2800	NO	NO
Styrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Nylones	NE	NE	NO	NO	NR	NR	NR	NR	NR	NR	NO	NO

ALL UNITS ARE ug/l

BU = Extraction Well

FA = First field duplicate analysis

FB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

B = Compound detected in Laboratory blank - not edited

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority ML	WELL NUMBER									
			EA-83	EA-84	EA-84	EA-84	EA-85	EA-85	EA-85	EA-85	EA-85	EA-85
Date Sampled			07/01/88	10/24/87	01/06/88	04/06/88	07/01/88	10/24/87	01/06/88	04/06/88	04/06/88	07/01/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/15/88	11/01/87	01/19/88	04/12/88	07/15/88	11/01/87	01/20/88	04/13/88	04/13/88	07/15/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis				LDA	LDB					LDA	LDB	
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	370	500	460	380	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethene	6	7	680	1600	1200	1200	1100	2200	1700	1600	1600	2000
1,1-Dichloroethane	20	NE	NO	220	150	160	140	NO	NO	NO	NO	NO
Total 1,2-Dichloroethene	16	NE	NO	310	250	250	220	NO	32	28	30	27
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	110	95	96	83	110	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	42	190	180	180	140	450	400	350	350	320
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	75	1500	1100	1100	1300	2400	1700	1600	1500	1800
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	7	5	NO	268	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl acetate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Heptanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

EA = Extraction Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing Detected

B = Compound detected in Laboratory blank - not edited

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 8240 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	EA-83	EA-84	EA-84	EA-84	EA-85	EA-85	EA-85	EA-85	EA-85	EA-85
Date Sampled			07/01/88	10/24/87	01/06/88	01/06/88	07/01/88	10/24/87	01/06/88	04/06/88	04/06/88	07/01/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			07/15/88	11/01/87	01/19/88	01/19/88	07/15/88	11/01/87	01/20/88	04/13/88	04/13/88	07/15/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
4-Methyl-2-pentanone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NR	ND	ND	ND	NR	ND	ND	ND	ND	NR

ALL UNITS ARE ug/l

EA = Extraction Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NE = Not established

Parameter	DES Action Level	U.S. EPA Priority ML	WELL NUMBER										
			EA-86	EA-86	EA-86	EA-87	EA-87	EA-87	EA-10	EA-11	EA-11		
Date Sampled			10/24/87	01/06/88	04/06/88	07/01/88	10/24/87	01/06/88	04/07/88	07/01/88	10/26/87	10/27/87	10/27/87
Sampled By			RAULIAN	RAULIAN	RAULIAN	RAULIAN	RAULIAN	RAULIAN	RAULIAN	RAULIAN	RAULIAN	RAULIAN	RAULIAN
Date Analyzed			11/01/87	01/20/88	04/11/88	07/15/88	11/01/87	01/20/88	04/13/88	07/15/88	11/02/87	11/09/87	11/09/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	810	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	1500	1700
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	6	7	69	130	120	130	40	48	110	120	1100	40000	46000
1,1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	330	NO	NO
1,1,1-Trichloroethane	16	NE	NO	NO	NO	NO	NO	NO	2.7	2.2	780	NO	NO
Total 1,2-Dichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	5	200	32	86	80	74	NO	NO	5.7	4.8	NO	6900	10000
1,1,1,1-Tetrachloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	5	5	24	66	73	80	8.5	16	37	48	910	5600	8000
Trichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Dichloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1,2-Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibutylbenzene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl acetate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

LDB = Second Laboratory duplicate analysis

NE = Not established





MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-12	M4-14	M4-15	M4-17D	M4-17D	M4-17D	M4-18D	M4-19D	M4-20D	M4-21S	M4-21S
Date Sampled			10/23/87	10/26/87	10/26/87	01/27/88	07/21/88	07/21/88	04/27/88	10/26/87	01/29/87	01/25/88	07/26/88
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/05/87	11/05/87	11/05/87	02/04/88	08/02/88	08/02/88	05/04/88	11/02/87	02/02/87	02/02/88	08/03/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis							LDA	LDB					
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	11000	260	1500	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	15	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	9.8	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	3200	350	180	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	4700	350	1000	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl acetate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Heptanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

NE = Not established

B

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-2D	M4-2D	M4-2D	M4-2D	M4-2D	M4-2D	M4-2D	M4-2D	M4-2D	M4-31S
Date Sampled			01/23/87	01/23/87	04/21/88	04/21/88	01/26/88	07/20/88	01/27/88	07/21/88	08/12/87	04/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/27/87	01/27/87	05/01/88	05/01/88	02/03/88	07/29/88	07/29/88	08/02/88	08/22/87	04/25/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB								
Lab Analysis			LDA	LDB				LDA	LDB			
Chloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethene	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethene	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	660	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Caronde Environmental Services

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Priority ML	WELL NUMBER									
			M4-22D	M4-22D	M4-22D	M4-23D	M4-27D	M4-27D	M4-28D	M4-28D	M4-29D	M4-31S
Date Sampled			01/23/87	01/23/87	01/23/87	04/21/88	01/26/88	07/20/88	01/27/88	07/21/88	08/12/87	04/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/27/87	01/27/87	05/01/88	05/01/88	02/03/88	07/29/88	08/02/88	08/02/88	08/22/87	04/25/88
Lab			SAC	SAC	SAC	CSS	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB				LDA	LDB			
2-Hexene	NE	NE	NO	NO	NO	NA	NO	NO	NO	NO	NO	NO
4-Methyl-2-pentene	NE	NE	NO	NO	NO	NA	NO	NO	NO	NO	NO	NO
Styrene	NE	NE	NO	NO	NO	NA	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NO	NO	NR	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CSS = Canole Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-36S	M4-41S	M4-41S	M4-41S
Date Sampled			01/29/87	01/29/87	04/16/87	07/31/87	07/31/87	04/16/87	01/26/88	01/26/88	07/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/02/87	02/02/87	04/23/87	08/04/87	08/04/87	04/23/87	02/04/88	02/04/88	07/19/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB							
Lab Analysis						LDA	LDB	LDA		LDB	
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	530	480	340	370	490	660	18	20	13
Chloroform	100	100	NO	NO	NO	NO	NO	NO	1.8	2.1	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	22000	22000	21000	22000	23000	35000	190	220	700
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethoxyvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	4.7	5.5	27
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-36S	M4-41S	M4-41S	M4-41S
Date Sampled			01/29/87	01/29/87	04/16/87	07/31/87	07/31/87	01/08/88	07/21/88	04/16/87	01/26/88	01/26/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/02/87	02/02/87	04/23/87	08/04/87	08/04/87	01/19/88	08/01/88	04/23/87	02/04/88	02/04/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB								
Lab Analysis					LDA	LDB			LDA	LDB		
Vinyl acetate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Bromone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methyl-2-pentene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Styrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NO	NO	NO	NR	NR	NO	NO	NO	NO	NR

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Well Number	M4-44S	M4-51	M4-52	M4-53	M4-54	M4-54	M4-54	M4-54
Date Sampled				01/12/87	10/15/87	07/07/88	10/16/87	10/21/87	04/07/88	07/05/88	10/19/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				01/20/87	10/21/87	07/16/88	10/27/87	10/30/87	04/12/88	07/16/88	10/26/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis											
Lab Analysis											
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7		ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE		ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5		ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100		ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND
Benzene	7	5		ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
2-Naphthol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND
2-Benzene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FM = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

B = Compound detected in laboratory blank - not edited

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR HEPTACHLOR ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-44S	M4-51	M4-51	M4-52	M4-53	M4-53	M4-54	M4-54	M4-54	M4-54
Date Sampled			01/12/87	10/15/87	07/07/88	10/16/87	10/21/87	04/07/88	07/05/88	10/19/87	10/19/87	04/06/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/20/87	10/21/87	07/16/88	10/27/87	10/30/87	04/12/88	07/16/88	10/26/87	10/26/87	04/11/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
4-Methyl-2-pentachloro	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	ND	NR	ND	ND	ND	NR	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

RIA = First field duplicate analysis

RTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action	Primary	ML	WELL NUMBER	M4-55	M4-55	M4-55	M4-57	M4-57	M4-58	M4-58	M4-59
Date Sampled														
Sampled by														
Date Analyzed														
Lab														
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromoethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl chloride	2	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Methylene chloride	40	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethane	3400	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1-Dichloroethane	6	7	43	24	22.0	NE	4.3	4.3	3.8	NE	NE	NE	NE	NE
1,1-Dichloroethane	20	NE	6.9	4.0	NE	NE	3.9	22	22	NE	NE	NE	NE	NE
Total 1,2-Dichloroethane	16	NE	7.1	4.8	NE	NE	22	NE	NE	NE	NE	NE	NE	NE
Chloroform	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	1	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,1-Trichloroethane	200	200	44	29	17.0	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon tetrachloride	5	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromodichloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichloroethane	10	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trans-1,3-dichloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Trichloroethane	5	5	18	9.5	7.9	NE	15	15	NE	NE	NE	NE	NE	NE
Dibromochloroethane	100	100	23	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2-Trichloroethane	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
cis-1,3-Dichloroethane	87	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloroethylvinyl ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bromodichloroethane	100	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,1,2,2-Tetrachloroethane	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Tetrachloroethane	4	NE	NE	NE	13.0	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chlorobenzene	30	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzene	.7	5	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Ethylbenzene	680	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Toluene	100	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Acetone	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Carbon disulfide	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Butanone	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Vinyl acetate	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Butanone	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l  
 NE = Nothing detected  
 NA = Not analyzed  
 NE = Not established  
 RADIANT = Radian Corporation, Sacramento  
 CES = Carlin Environmental Services  
 SAC = Radian Analytical Services, Sacramento

MASTER LOG OF WELLS SAMPLED FOR METHED 8240 ANALYTES (METHED 624 PRIOR TO OCTOBER 1988)

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Priority	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55
Date Sampled														
Sampled By														
Date Analyzed														
Lab														
Field Analysis														
Lab Analysis														
4-Methyl-2-pentanone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 RFA = First field duplicate analysis  
 RFB = Second field duplicate analysis  
 RADIUM = Radium Corporation, Sacramento  
 CES = Caronde Environmental Services, Sacramento  
 SAC = Radium Analytical Services, Sacramento  
 ND = Nothing detected  
 NR = Not reported  
 NA = Not analyzed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 8240 PRIOR TO OCTOBER 1988)

Parameter	DHS action Level	U.S. EPA Primary MCL	M4-59	M4-60	M4-61	M4-61	M4-61	M4-62	M4-63	M4-70	M4-70	M4-70
Date Sampled			10/09/87	01/13/87	01/29/87	01/19/88	07/20/88	04/26/88	07/15/88	01/29/87	10/16/87	04/21/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/16/87	01/20/87	02/02/87	01/21/88	07/28/88	05/03/88	07/28/88	02/02/87	10/27/87	05/01/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	3.0(9.24)	NO	NO	NO	NO	NO	NO
Trichlorofluoroethers	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	6	7	9.5	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethers	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethers	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethers	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethers	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethers	5	5	7.4	NO	1.3	5.4	6.6	NO	72	NO	NO	NO
Dibromochloroethers	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethers	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropane	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl vinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethers	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	1.28(27.1)	NO	NO	NO	31	NO	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 MW = Monitoring Well  
 FTA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in laboratory blank - not edited  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	M4-59	M4-60	M4-61	M4-61	M4-62	M4-63	M4-70	M4-70	M4-70
	Action	Level	ML									
Data Sampled				10/09/87	01/13/87	01/29/87	01/19/88	07/20/88	04/26/88	07/15/88	01/29/87	10/16/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed				10/16/87	01/20/87	02/02/87	01/21/88	07/28/88	05/03/88	07/28/88	02/02/87	10/27/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Vinyl acetate	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Bromoox	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methyl-2-pentano	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Styrene	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NE	NO	NO	NO	NO	NR	NR	NO	NO	NO

ALL UNITS ARE ug/l

M4 - Monitoring Well

RA - First field duplicate analysis

RB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-70	M4-71	M4-72	M4-72	M4-72	M4-74	M4-74	M4-74	M4-74	M4-75
	Level	MCL										
Date Sampled			04/21/88	04/22/88	10/20/87	01/08/88	04/11/88	04/27/88	04/27/88	04/27/88	04/27/88	04/21/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/02/88	05/02/88	10/27/87	01/19/88	04/21/88	08/01/88	05/03/88	05/03/88	05/04/88	05/03/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB				FTB	FTB	FTB	FTB	
Lab Analysis			LDB					LDB	LDB	LDB	LDB	LDB
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	460	670	770	660	9.3	13	14	13
1,1-Dichloroethane	20	NE	NO	NO	43	61	54	64	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	58	88	57	83	NO	NO	NO	NO
Chloroform	100	100	NO	NO	1.8	120	140	140	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	79	42	NO	32	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	11	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	530	790	1900	1100	8.5	9.6	11	21
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	5.4	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoforn	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

MW = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDB = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canam Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	IES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-70	M4-71	M4-72	M4-72	M4-72	M4-74	M4-74	M4-74	M4-74	M4-75
Date Sampled			04/21/88	04/22/88	10/20/87	01/09/88	04/11/88	04/27/88	04/27/88	04/27/88	04/27/88	04/21/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/02/88	05/02/88	10/27/87	01/19/88	04/21/88	08/01/88	05/03/88	05/03/88	05/04/88	05/03/88
Lab			SAC	SAC	SAC	SAC	SAC	CEC	SAC	SAC	SAC	SAC
Field Analysis			FOB						FOB	FOB	FOB	
Lab Analysis			LDB						LDA	LDB	LDB	LDA
Vinyl acetate	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
2-Hexene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
4-Hexyl-2-pentene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Total Nylones	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NR

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FOB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CEC - Central Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NR - Not reported

NA - Not analyzed

NE - Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Primary	M4-75	M4-76	M4-76	M4-88	M4-88	M4-88	M4-89	M4-89	M4-89
	Action	ML	ML									
Date Sampled				04/21/88	04/28/88	04/28/88	01/06/87	01/06/87	04/11/88	01/06/87	10/21/87	04/15/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				05/03/88	05/04/88	05/04/88	01/13/87	01/13/87	04/21/88	01/13/87	10/30/87	04/26/88
Lab				SAC	SAC	OES	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				LDB			LDA	LDB				
Lab Analysis												
Chloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	NE	ND	110	64	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	NE	ND	20	10	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	NE	ND	29	19	ND	ND	ND	ND	ND	ND
Chloroform	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	NE	ND	5.2	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NE	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND
Carbon disulfide	NE	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND
Vinyl acetate	NE	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND
2-Heptanone	NE	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 OES = Caronde Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-75	M4-76	M4-76	M4-88	M4-88	M4-88	M4-88	M4-89	M4-89	M4-89
Date Sampled				04/21/88	04/28/88	04/28/88	01/06/87	01/06/87	10/24/87	04/11/88	04/11/88	01/06/87	10/21/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				05/03/88	05/04/88	05/04/88	01/13/87	01/13/87	11/01/87	04/17/88	04/21/88	01/13/87	10/30/87
Lab				SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				LTB			LDA	LTB					
Lab Analysis													
4-Methyl-2-pentane	NE	NE	NE	NO	NO	NA	NO	NO	NO	NO	NO	NO	NO
Styrene	NE	NE	NE	NO	NO	NA	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NE	NR	NR	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LTB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Cerule Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			M4-90	M4-90	M4-90	M4-91	M4-91	M4-91	M4-91	M4-91	M4-91	M4-92	M4-92	M4-92
Date Sampled			01/20/87	10/12/87	04/11/88	04/11/88	01/20/87	01/20/87	10/12/87	10/12/87	04/18/88	10/26/87	10/26/87	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			01/23/87	10/20/87	04/17/88	04/20/88	01/23/87	01/23/87	10/16/87	10/16/87	04/30/88	11/02/87	11/02/87	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis					FDA	FDA	FDA	FDA	FDA	FDA		FDA	FDA	
Lab Analysis														
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	1.3	1.0	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	ND	ND	ND	ND	8.6	8.3	8.2	8.4	7.6	3.3	3.3	3.3
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-90	M4-90	M4-90	M4-91	M4-91	M4-91	M4-91	M4-91	M4-92	M4-92
Date Sampled			01/20/87	10/12/87	04/11/88	01/20/87	01/20/87	10/12/87	10/12/87	04/18/88	10/26/87	10/26/87
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			01/23/87	10/20/87	04/20/88	01/23/87	01/23/87	10/16/87	10/16/87	04/30/88	11/02/87	11/02/87
Field Analysis			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Lab Analysis					FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
4-Hedyl-2-pentacene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Nylanes	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well  
 FDA - First field duplicate analysis  
 FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento  
 SAC - Radian Analytical Services, Sacramento

ND = Nothing detected  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	MW-92	MW-100	MW-101	MW-102	MW-103	MW-111	MW-114	MW-114	MW-116	MW-116
Date Sampled			04/12/88	04/14/88	08/05/87	08/07/87	08/04/87	07/12/88	07/12/88	07/12/88	01/13/88	01/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/21/88	04/25/88	08/14/87	08/19/87	08/14/87	07/18/88	07/18/88	07/18/88	01/21/88	01/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	3400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoforn	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	7	5	ND	ND	ND	5.28	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NE	NE	ND	ND	ND	8.4	ND	ND	ND	ND	ND	ND
Carbon disulfide	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 MW = Monitoring Well  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in laboratory blank - not edited  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER							
			M4-92	M4-100	M4-101	M4-102	M4-103	M4-111	M4-114	M4-116
Date Sampled			04/12/88	04/14/88	08/05/87	08/07/87	08/04/87	01/15/88	01/07/88	01/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/21/88	04/25/88	08/14/87	08/19/87	08/14/87	07/18/88	01/19/88	01/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis										
2-Benzenes	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
4-Methyl-2-pentanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Styrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Total Xylenes	NE	NE	NO	NO	NR	NR	NR	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NR = Not reported

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-116	M4-120	M4-120	M4-120	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128
	Level	MCL										
Date Sampled			07/06/88	01/23/88	07/11/88	07/11/88	07/11/88	01/16/87	01/13/88	07/12/88	07/12/88	07/12/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/16/88	02/02/88	07/16/88	07/16/88	04/23/87	01/21/88	01/21/88	07/18/88	07/18/88	07/18/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Axetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FMA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Caronde Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER												
			M4-120	M4-120	M4-120	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128				
Date Sampled															
Sampled By															
Date Analyzed															
Lab															
Field Analysis															
Lab Analysis															
Vinyl acetate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Bromone	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l.

M4 = Monitoring Well

FDA = First field duplicate analysis

FIB = Second field duplicate analysis

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIUM = Radion Corporation, Sacramento

CES = Caronde Environmental Services

SAC = Radion Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-128	M4-129	M4-129	M4-129	M4-130	M4-132	M4-132	M4-132	M4-132	M4-136
Date Sampled			07/12/88	01/16/87	01/13/88	07/12/88	01/16/87	01/21/87	05/15/87	07/29/87	01/22/88	07/14/88
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/18/88	01/23/87	01/21/88	07/18/88	01/23/87	01/23/87	05/19/87	07/31/87	02/02/88	07/28/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB									
Lab Analysis												
Chloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE	NA	NO	NO	NA	NO	NO	NO	NO	NA	NO
1,1-Dichloroethane	6	7	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE	NO	NO	NO	NO	5.9	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	NO	NO	17	17	23	25	7.4
Chloroform	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromodichloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloropropane	10	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	5	5	32000	7.5	23	200	NO	48	49	56	66	430
Dibromochloroethane	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE	NA	NO	NO	NA	NO	NO	NO	NO	NO	NO
Bromofuran	100	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	488	NO	NO
Carbon disulfide	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl acetate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 MW = Monitoring Well  
 FTB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in Laboratory blank - not edited  
 NE = Not established

Analytical data for M4-137, M4-140 and M4-141 appear under M4-137, M4-140 and M4-141



MASTER LOG OF WELLS SAMPLED FOR METHED 8240 ANALYTES (METHED 624 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA		WELL NUMBER											
	Action Level	Primary MCL	M4-128	M4-129	M4-129	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-132	M4-136	
Date Sampled			07/12/88	01/16/87	01/13/88	07/12/88	01/16/87	01/21/87	05/15/87	07/29/87	01/22/88	07/18/88	07/14/88	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			07/18/88	01/23/87	01/21/88	07/18/88	01/23/87	01/23/87	05/19/87	07/31/87	02/02/88	07/28/88	07/19/88	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis			FTB											
Lab Analysis														
2-Bromonaphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4-Methyl-2-pentanone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Styrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total Naphthalenes	NE	NE	ND	ND	ND	ND	ND	ND	ND	NR	ND	ND	NR	

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NR = Not reported

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHYL 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action	U.S. EPA Primary	ML	M4-143	M4-1004	M4-1004	M4-1005	M4-1005	M4-1011	M4-1012	M4-1013	M4-1018	M4-1019
Date Sampled				07/21/88	01/20/88	07/22/88	04/16/87	04/16/87	07/26/88	07/27/87	04/20/87	10/08/87	01/25/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				08/01/88	01/21/88	08/02/88	04/23/87	04/23/87	08/03/88	07/28/87	04/24/87	10/12/87	02/03/88
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis							LDA	LDB					FDA
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethene	3400	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	7		NO	25	13	85	75	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	8.7	7.9	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE		NO	NO	NO	8.6	7.9	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	3.6	3.2	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5		NO	NO	2.2	35	32	NO	NO	NO	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoforn	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	7	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Axetone	NE	NE		NO	NO	9.1B	NO	NO	NO	NO	NO	NO	NO
Carbon disulfide	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Butanone	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl acetate	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in Laboratory blank - not edited  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES U.S. EPA		WELL NUMBER		M4-1004		M4-1005		M4-1009		M4-1011		M4-1012		M4-1013		M4-1018		M4-1019	
	Action	Level	Primary	MCL																
Date Sampled					07/21/88	01/20/88	07/22/88	04/16/87	04/16/87	07/26/88	04/22/88	07/27/87	04/20/87	10/08/87	04/20/87	10/12/87	01/25/88			
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN			
Date Analyzed					08/01/88	01/21/88	08/02/88	04/23/87	04/23/87	08/03/88	05/02/88	07/28/87	04/24/87	10/12/87	04/24/87	10/12/87	02/03/88			
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC			
Field Analysis																				
Lab Analysis								LDA	LDB											
2-Hexene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
4-Hexyl-2-pentene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Styrene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Total Nylons	NE	NE			ND	ND	ND	ND	ND	ND	ND	NR	ND	ND	ND	ND	ND			

ALL UNITS ARE ug/l

MW = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

 ND = Nothing detected  
 NR = Not reported  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary ML	WELL NUMBER									
				M4-1019	M4-1022	M4-1022	M4-1022	M4-1028	M4-1028	M4-1028	M4-1029	M4-1033	M4-1036
Date Sampled				01/25/88	10/20/87	10/20/87	10/20/87	10/14/87	10/14/87	10/14/87	01/18/88	04/15/88	01/14/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				02/02/88	10/27/87	11/24/87	10/20/87	10/20/87	11/09/87	10/20/87	01/21/88	04/26/88	01/20/88
Lab				SAC	SAC	SAC	CSS	SAC	CSS	SAC	SAC	SAC	SAC
Field Analysis				FTB									FTB
Lab Analysis								LDA	LDA	LDB			
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromoethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Vinyl chloride	2	1		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylene chloride	40	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	3400	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	6	7		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1-Dichloroethane	20	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total 1,2-Dichloroethane	16	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chloroform	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	1	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,1-Trichloroethane	200	200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbon tetrachloride	5	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	10	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trans-1,3-dichloropropene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Trichloroethane	5	5		NO	6.6	9.0	NO	NO	NO	2.1	NO	NO	NO
Dibromochloroethane	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2-Trichloroethane	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
cis-1,3-Dichloropropene	87	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylvinyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromobenzene	100	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,1,2,2-Tetrachloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Tetrachloroethane	4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chlorobenzene	30	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	.7	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ethylbenzene	680	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toluene	100	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Axetone	NE	NE		NO	NA	NA	NA	NA	NA	NA	NO	NO	NO
Carbon disulfide	NE	NE		NO	NO	NO	NO	NA	NA	NO	NO	NO	NO
2-Butanone	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FTB = First field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
RADIAN = Radian Corporation, Sacramento  
CSS = Canine Environmental Services  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-1019	M4-1019	M4-1022	M4-1022	M4-1028	M4-1028	M4-1028	M4-1029	M4-1033	M4-1036
Date Sampled			01/25/88	07/11/88	10/20/87	10/20/87	10/14/87	10/14/87	10/14/87	01/18/88	04/15/88	01/14/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/02/88	07/16/88	10/27/87	11/24/87	10/20/87	11/09/87	10/20/87	01/21/88	04/26/88	01/20/88
Lab			SAC	SAC	SAC	CES	CES	CES	SAC	SAC	SAC	SAC
Field Analysis			FTB									FTB
Lab Analysis							LDA	LDA	LDB			FTB
Vinyl acetate	NE	NE	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
2-Hexene	NE	NE	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
4-Methyl-2-pentene	NE	NE	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	NR	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FTB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Camille Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NR - Not reported

NA - Not analyzed

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA	Action Level	ML	WELL NUMBER									
					M4-1036	M4-1037	M4-1038	M4-1039	Q4-136	Q4-142	Q4-334	Q4-335	Q4-340	Q4-340
Dates Sampled					07/22/88	08/12/87	08/04/87	01/27/88	10/17/86	10/30/86	07/09/86	07/23/86	07/08/86	07/08/86
Dates Analyzed					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab					SAC	SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS
Field Analysis														
Lab Analysis														
Chloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3400	NE			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	20	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	10	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethane	5	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloroethane	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	NE	NE			NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofuran	100	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl acetate	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
Q4 = Off base residential well

ALL UNITS ARE ug/l

MA = Monitoring Well  
LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
OW = Off base monitoring well

RODAN = Rodian Corporation, Sacramento  
RAS = Rodian Analytical Services  
SAC = Rodian Analytical Services, Sacramento

ND = Nothing detected  
NR = Not reported  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				04-558	04-544	04-544	04-544	04-810	04-810	04-829	04-829	04-906	04-906
Date Sampled				10/14/86	10/28/86	10/28/86	10/28/86	10/13/86	10/13/86	10/27/86	10/27/86	10/30/86	10/30/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/22/86	11/06/86	11/13/86	11/13/86	10/22/86	10/22/86	11/06/86	11/06/86	11/07/86	11/07/86
Lab				SAC	SAC	ELI	ELI	SAC	SAC	SAC	ELI	SAC	SAC
Field Analysis								FDA	FDA				
Lab Analysis						LDA	LDB	LDA	LDB			LDA	LDB
Chloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	1		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	40	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3400	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	6	7		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	20	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total 1,2-Dichloroethane	16	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans-1,3-dichloropropene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	87	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethoxyvinyl ether	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromofom	100	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethane	4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	30	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.7	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	680	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

ND = Nothing detected  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				QM-358	QM-544	QM-544	QM-544	QM-510	QM-810	QM-829	QM-829	QM-906	QM-906
Date Sampled				10/14/86	10/28/86	10/28/86	10/28/86	10/13/86	10/13/86	10/27/86	10/27/86	10/30/86	10/30/86
Sampled by				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/22/86	11/06/86	11/13/86	11/13/86	10/22/86	10/22/86	10/31/86	11/06/86	11/07/86	11/07/86
Lab				SAC	SAC	ELI	ELI	SAC	SAC	ELI	SAC	SAC	SAC
Field Analysis								FDA	FTB				
Lab Analysis					LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Vinyl acetate	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

ND = Nothing detected  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 624 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Primary MCL	04-910	04-924	04-924	WELL NUMBER
Date Sampled			10/29/86	10/28/86	10/29/86	
Sampled By			RADIAN	RADIAN	RADIAN	
Date Analyzed			11/06/86	11/13/86	11/06/86	
Lab			SAC	ELI	SAC	
Field Analysis						
Lab Analysis						
Chloroethane	NE	NE	NO	NO	NO	
Bromoethane	NE	NE	NO	NO	NO	
Vinyl chloride	2	1	NO	NO	NO	
Chloroethene	NE	NE	NO	NO	NO	
Methylene chloride	40	NE	NO	NO	NO	
Trichlorofluoromethane	3400	NE	NO	NO	NO	
1,1-Dichloroethane	6	7	NO	NO	NO	
1,1-Dichloroethene	20	NE	NO	NO	NO	
Total 1,2-Dichloroethane	16	NE	NO	NO	NO	
Chloroform	100	100	NO	NO	NO	
1,2-Dichloroethane	1	5	NO	NO	NO	
1,1,1-Trichloroethane	200	200	NO	NO	NO	
Carbon tetrachloride	5	5	NO	NO	NO	
Bromodichloromethane	100	100	NO	NO	NO	
1,2-Dichloropropane	10	NE	NO	NO	NO	
Trans-1,3-dichlorocyclopentane	NE	NE	NO	NO	NO	
Trichloroethane	5	5	NO	NO	NO	
Dibromodichloromethane	100	100	NO	NO	NO	
1,1,2-Trichloroethane	100	NE	NO	NO	NO	
cis-1,3-Dichlorocyclopentane	87	NE	NO	NO	NO	
2-Chloroethylvinyl ether	NE	NE	NO	NO	NO	
Bromoforn	100	100	NO	NO	NO	
1,1,2,2-Tetrachloroethane	NE	NE	NO	NO	NO	
Tetrachloroethane	4	NE	NO	NO	NO	
Chlorobenzene	30	NE	NO	NO	NO	
Benzene	7	5	NO	NO	NO	
Ethylbenzene	680	NE	NO	NO	NO	
Toluene	100	NE	NO	NO	NO	
Acetone	NE	NE	NO	NO	NO	
Carbon disulfide	NE	NE	NO	NO	NO	
2-Butanone	NE	NE	NO	NO	NO	
Vinyl acetate	NE	NE	NO	NO	NO	
2-Heptanone	NE	NE	NO	NO	NO	

ALL UNITS ARE ug/l  
 04 = Off base residential well  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Burek Laboratories, Inc.  
 ND = Nothing detected  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 8240 ANALYTES (METHOD 824 PRIOR TO OCTOBER 1988)

Parameter	DHS Action Level	U.S. EPA Priority MCL	WELL NUMBER			
			CM-910	CM-924	CM-924	CM-1238
Date Sampled			10/29/86	10/28/86	10/28/86	10/29/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/06/86	11/06/86	11/13/86	11/06/86
Lab			SAC	SAC	ELI	SAC
Field Analysis						
Lab Analysis						
4-Methyl-2-pentanone	NE	NE	ND	ND	ND	ND
Styrene	NE	NE	ND	ND	ND	ND
Total Xylenes	NE	NE	ND	ND	ND	ND

ALL UNITS ARE ug/l

CM = Off base residential well

 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.  
 ND = Nothing detected  
 NE = Not established

**RADIAN**  
CORPORATION

RESULTS FOR U.S. EPA METHOD 625

THIS PAGE INTENTIONALLY BLANK

[illegible]

ALL UNITS ARE LB/L

UDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
BW = Base production well

**RADIAN** = Radian Corporation, Sacramento  
**ES** = Engineering Science, Inc.  
**CAL** = California Analytical Labs  
**SAC** = Radian Analytical Services, Sacramento

ND = Nothing detected  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			BM-1	BM-2	BM-8	BM-10	BM-10	BM-10	BM-11	BM-12	BM-13	BM-13
Date Sampled			01/29/82	01/12/82	01/12/82	12/02/85	03/26/86	03/26/86	01/12/82	01/12/82	01/12/82	12/02/85
Sampled By			ES	ES	ES	RADIAN	RADIAN	RADIAN	ES	ES	ES	RADIAN
Date Analyzed						12/17/85	04/03/86	04/04/86				12/16/85
Lab			CAL	CAL	CAL	SAC	SAC	SAC	CAL	CAL	CAL	SAC
Field Analysis												
Lab Analysis							LDA	LDB				
Hexachlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
p-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodiphenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Acetylphenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(g,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 BM = Base production well  
 RADIAN = Radian Corporation, Sacramento  
 CAL = California Analytical Labs  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			BM-17	BM-18	BM-18	BM-18	BM-28	BM-29	BM-29	BM-29	BM-29	BM-29
Date Sampled			01/12/82	01/12/82	12/02/85	03/26/86	01/12/82	01/12/82	01/12/82	12/02/85	03/27/86	03/27/86
Sampled By			ES	ES	RADIAN	RADIAN	ES	ES	ES	RADIAN	RADIAN	RADIAN
Date Analyzed				12/16/85	12/16/85	04/03/86				12/17/85	04/08/86	04/08/86
Lab			CAL	SAC	SAC	SAC	CAL	CAL	CAL	SAC	SAC	SAC
Field Analysis				FDA	FDB					FDA	FDB	FDB
Lab Analysis							LDA	LDA	LDB			
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	750	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dibromodiphenyl ether		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Hexachlorocyclopentadiene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Hexachlorocyclopentadiene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Hexachlorocyclopentadiene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-tert-butyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzofluoranthene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(k)fluoranthene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene		NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)ethylene	(LQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
BH = Base production well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
CAL = California Analytical Labs  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
LQ = Limit of quantitation  
NE = Not established



MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			BA-17	BA-18	BA-18	BA-18	BA-28	BA-29	BA-29	BA-29	BA-29	BA-29
Date Sampled			01/12/82	01/12/82	12/02/85	12/02/85	03/26/86	01/12/82	01/12/82	01/12/82	12/02/85	03/27/86
Sampled By			ES	ES	RADIAN	RADIAN	RADIAN	ES	ES	ES	RADIAN	RADIAN
Date Analyzed					12/16/85	12/16/85	04/03/86				12/17/85	04/08/86
Lab			CAL	CAL	SAC	SAC	SAC	CAL	CAL	CAL	SAC	SAC
Field Analysis					FDA	FDA					FDA	FDA
Lab Analysis					FIB	FIB		LDA	LDA	LDA		FIB
Benchlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benchlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dioxin	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-chloro-o-cresol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrocediphenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(g,h,i)perylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
FIB = Second field duplicate analysis  
FIB = First laboratory duplicate analysis  
LDA = Second laboratory duplicate analysis  
BA = Base production well

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA		WELL NUMBER									
		Primary	MCL	M#-1	M#-1	M#-1	M#-2	M#-2	M#-2	M#-4	M#-4	M#-4	M#-6
Date Sampled				09/04/80	09/04/80	09/04/80	08/27/80	09/23/80	03/31/82	10/02/84	03/30/82	10/01/84	
Sampled By				CAL	CAL	CAL	CAL	CAL	ES	RADIAN	ES	RADIAN	
Date Analyzed										10/15/84		10/15/84	
Lab										RAS		RAS	
Lab Analysis													
Lab Analysis													
1,3-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl)ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzofluoranthene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(k)fluoranthene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOQ)0.7	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M# = Monitoring Well  
 RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 NO = Nothing detected  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 605 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER							
			M4-1	M4-1	M4-1	M4-2	M4-2	M4-4	M4-4	M4-6
Date Sampled			09/04/80	09/04/80	09/04/80	08/27/80	09/04/80	03/31/82	10/02/84	10/01/84
Sampled By								ES	RADIAN	RADIAN
Date Analyzed									10/15/84	10/15/84
Lab			CAL	CAL	CAL	CAL	CAL	CAL	RAS	RAS
Field Analysis										
Lab Analysis										
Heachlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Isophene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
p-chloro-o-cresol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	400	NE	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-o-cresol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Perchlorophenol	30	NE	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
N-nitrosodiphenylamine	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(g,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
RAS = Radian Analytical Services

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-7	M4-7	M4-7	M4-8	M4-9	M4-9	M4-10	M4-10	M4-11	M4-11
Date Sampled			03/17/82	03/29/82	09/21/84	03/31/82	03/31/82	04/28/82	09/30/84	03/30/82	09/18/84	03/30/82
Sampled By			ES	ES	RADIAN	ES	ES	ES	RADIAN	ES	RADIAN	ES
Date Analyzed					11/01/84			10/15/84			10/07/84	
Lab			CAL	CAL	RAS	CAL	CAL	RAS		CAL	RAS	CAL
Field Analysis												
Lab Analysis												
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	2	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	21	82	ND
1,4-Dichlorobenzene	NE	750	ND	ND	ND	ND	ND	ND	ND	ND	6	ND
Aroclor 1248	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibenzylhydrazine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NE	NE	12	13	ND	100	21	ND	ND	13	ND	14
Bis(2-ethylhexyl) phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibutyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzophenone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzophenone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-Benzofluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzofluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	(LOQ)0.7	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 ND = Nothing detected  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	IHS Action	U.S. EPA Primary Method	WELL NUMBER							
			M4-7	M4-7	M4-7	M4-8	M4-9	M4-9	M4-10	M4-11
Date Sampled			03/17/82	03/29/82	09/21/84	03/31/82	03/31/82	03/30/82	09/18/84	08/18/82
Sampled By			ES	ES	RADIAN	ES	ES	ES	RADIAN	ES
Date Analyzed					11/01/84				10/07/84	
Lab			CAL	CAL	RAS	CAL	CAL	CAL	RAS	CAL
Field Analysis										
Lab Analysis										
Benzothioxyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Isophorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	25
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
p-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	7	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrooxydiphenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
4-Acetylphenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(g,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO

 ALL UNITS ARE ug/l  
 M4 = Monitoring Well

 RADIAN = Radian Corporation, Sacramento  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services

 NO = Nothing detected  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-11	M4-12	M4-12	M4-12	M4-13	M4-13	M4-14	M4-14	M4-15	M4-15
Date Sampled			09/19/84	04/29/82	08/18/82	09/20/84	03/30/82	08/18/82	08/18/82	09/20/84	04/29/82	08/18/82
Sampled By			RADIANT	ES	ES	RADIANT	ES	ES	ES	RADIANT	ES	ES
Date Analyzed			10/07/84			10/09/84				10/09/84		
Lab			RAS	CAL	CAL	RAS	CAL	CAL	CAL	RAS	CAL	CAL
Field Analysis												
Lab Analysis												
1,3-Dichlorobenzene	130	NE	6	ND	ND	ND	ND	ND	28	109	ND	8
1,2-Dichlorobenzene	130	NE	28	ND	ND	ND	ND	ND	100	267	ND	50
1,4-Dichlorobenzene	NE	750	ND	ND	ND	ND	ND	ND	40	151	ND	12
Acenaphthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	12	ND	ND	ND	6	ND	ND	ND
Benzchlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzchlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylbenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibenzylhydrazine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorenone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylthiophenyl)phthalate	NE	NE	ND	ND	ND	ND	64	ND	11	ND	ND	ND
Benzylbenzyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-Benzofluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	(100)0.7	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

RADIANT = Radiant Corporation, Sacramento

ES = Engineering Science, Inc.

CAL = California Analytical Labs

RAS = Radiant Analytical Services

ND = Nothing detected

LOQ = Limit of quantitation

NE = Not established

[illegible]

ALL UNITS ARE U2/I

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			MW-15	MW-16D	MW-16D	MW-16S	MW-16S	MW-16S	MW-17D	MW-17D	MW-17D	MW-17S
Date Sampled			09/18/84	06/16/82	08/17/82	09/24/84	06/16/82	08/17/82	09/26/84	08/17/82	09/26/84	06/16/82
Sampled By			RADIANT	ES	ES	RADIANT	ES	ES	RADIANT	ES	RADIANT	ES
Date Analyzed			10/06/84			10/09/84			10/11/84		10/10/84	
Lab			RAS	CAL	CAL	RAS	CAL	CAL	RAS	CAL	RAS	CAL
Field Analysis												
Lab Analysis												
1,2-Dichlorobenzene	130	NE	21	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	74	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	33	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dibenzylhydrazine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzofluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	1000.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)benzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIANT = Radiant Corporation, Sacramento  
ES = Engineering Science, Inc.  
CAL = California Analytical Labs  
RAS = Radiant Analytical Services

NO = Nothing detected  
LOQ = Limit of quantitation  
NE = Not established



MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES	U.S. EPA	Action	Primary	ML	WELL NUMBER									
						M4-15	M4-10D	M4-10D	M4-10D	M4-10D	M4-16S	M4-16S	M4-17D	M4-17D	M4-17S
Date Sampled						09/18/84	06/16/82	08/17/82	09/24/84	06/16/82	08/17/82	09/26/84	06/16/82	09/26/84	06/16/82
Sampled By						RADIAN	RADIAN	ES	RADIAN	ES	ES	RADIAN	ES	RADIAN	ES
Date Analyzed						10/06/84	10/09/84		10/09/84			10/11/84		10/10/84	
Lab						RMS		CAL	RMS		CAL	RMS	CAL	RMS	CAL
Field Analysis															
Lab Analysis															
Benzochlorocyclopentadiene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Leptotene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
p-chloro- <i>o</i> -cresol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE				7	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro- <i>o</i> -cresol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	30	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroethoxyphenol	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenyl ether	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a,h)pyrene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
ML = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
RMS = Radian Analytical Services

NO = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

[illegible]

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

Item #130794 - 1/80 2nd Cir. T

ETA = First field duplicate analysis

PTB = Second field duplicate analysis

**RADIAN = RadLan Corporation, Sacramento**

ES = Engineering Science, Inc.

— CALIFORNIA ANALYTICAL LABS

== Radian Analytical Services

SSAC = RadLan Analytical Services, Sacramento

ND = Nothing detected

100 = Limit of quantitation

NE = Not established

[illegible]

ALL UNITS ARE U.S.

Wd = Monitoring Well

FPA = First field duplicate analysis

FDH = First field duplicate analysis  
 FDB = Second field duplicate analysis

## Statistical analysis

**RADIANT = Radiant Commemoration Sacramento**

CAL. = California Analytical Labs

Cellular Analytical Labs  
Radiation Analytical Services

WAS	== Radisson Analytical Services	Convenient
SAC	== Radisson Analytical Services	Convenient

AND = Nothing detected

ND = Not Determined  
NE = Not Established



## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-19D	M4-19D	M4-19D	M4-19S	M4-19S	M4-19S	M4-19S	M4-19S	M4-20D	M4-20D
Date Sampled			08/16/82	08/09/83	09/13/84	04/28/82	08/16/82	08/09/83	09/14/84	03/13/86	04/28/82	08/11/82
Sampled by			ES	RAS	RADIAN	ES	ES	RAS	RADIAN	RADIAN	ES	ES
Date Analyzed				08/19/83	10/04/84			08/19/83	10/05/84	03/31/86		
Lab			CAL	RAS	RAS	CAL	CAL	RAS	RAS	SAC	CAL	CAL
Field Analysis												
Lab Analysis												
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Benzochlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Isophrene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Naphthalene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Nitrobenzene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Dioxin	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
p-chloro-o-cresol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Perchlorophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
4-Acetylphenyl phenylether	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-20D	M4-20S	M4-20S	M4-20S	M4-20S	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21S
Date Sampled			09/19/84	05/25/82	08/11/82	09/30/84	06/15/82	08/13/82	09/17/84	09/17/84	03/19/86	03/19/86	06/15/82
Sampled By			RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	RADIAN	RADIAN	RADIAN	ES
Date Analyzed			10/07/84			10/12/84			10/05/84	10/05/84	04/02/86	04/02/86	
Lab			RAS	CAL	CAL	RAS	CAL	CAL	RAS	RAS	SAC	SAC	CAL
Field Analysis									FDA	FTB	LDA	LDB	
Lab Analysis													
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dibenzylhydrazine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl n-propylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	24(53.3)	16(53.3)	220
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzofluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LD)0.7 NE	NE	NO	NO	220	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well  
FVA = First field duplicate analysis  
FVL = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
CAL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

## MONITORING LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES	U.S. EPA Action: Level	Primary MCL	WELL NUMBER									
				M4-20S	M4-20S	M4-20S	M4-20S	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21S
Date Sampled				09/19/84	05/25/82	08/11/82	09/30/84	06/15/82	08/13/82	09/17/84	09/17/84	03/19/86	06/15/82
Sampled By				RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	RADIAN	RADIAN	ES
Date Analyzed				10/07/84			10/12/84			10/05/84	10/05/84	04/02/86	
Lab				RAS	CAL	CAL	RAS	CAL	CAL	RAS	RAS	SAC	CAL
Field Analysis										FIA	FIB	LDA	
Lab Analysis												LDB	
Benzochlorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Leptobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Negitobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorobenzene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-chloro-4-cresol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-cresol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitro-2-chlorophenol	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a,h,i,j)perylene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FIA = First field duplicate analysis

FIB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CAL = California Analytical Labs

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DBS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-21S	M4-21S	M4-21S	M4-22D	M4-22D	M4-22S	M4-22S	M4-22S	M4-22D	M4-22D
Data Sampled			08/13/82	09/17/84	03/19/86	04/28/82	08/13/82	09/20/84	09/20/84	06/04/82	08/13/82	09/21/84
Sampled By			ES	RADIAN	RADIAN	ES	ES	RADIAN	RADIAN	ES	ES	RADIAN
Data Analyzed				10/05/84	04/02/86			10/09/84	10/09/84			10/09/84
Lab			CAL	RAS	SAC	CAL	CAL	RAS	RAS	CAL	CAL	RAS
Field Analysis												
Lab Analysis												
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Diphenylhydrazine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzofluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(k)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDB = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

CAL = California Analytical Labs

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Priority ML	WELL NUMBER									
			M4-21S	M4-21S	M4-21S	M4-22D	M4-22D	M4-22D	M4-22S	M4-22S	M4-22S	M4-23D
Date Sampled			08/13/82	09/17/84	03/19/86	04/28/82	08/13/82	09/20/84	06/04/82	08/13/82	09/21/84	08/13/82
Sampled By			ES	RADIAN	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	ES
Date Analyzed				10/05/84	04/02/86			10/09/84			10/09/84	
Lab			CAL	RAS	SAC	CAL	CAL	RAS	CAL	CAL	RAS	CAL
Field Analysis								FDA				
Lab Analysis												
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Iridene(1,2,3-c)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
p-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perachlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrosodiphenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CAL = California Analytical Labs

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established

Parameter	DES Action Level	U.S.EPA Priority ML	WELL NUMBER											
			M4-23D	M4-23D	M4-23D	M4-23S	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D		
Date Sampled			06/28/82	09/26/84	03/17/86	04/28/82	08/13/82	09/29/84	04/28/82	08/12/82	09/27/84	03/20/86		
Sampled By			ES	RADIAN	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	RADIAN		
Date Analyzed			CAL	RAS	SAC	CAL	CAL	RAS	CAL	CAL	RAS	SAC		
Lab					FDA									
Field Analysis														
Lab Analysis														
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
1,1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
1,4-Dichlorobenzene	NE	750	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Aroclor 1248	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Bis(2-chloroethyl) ether	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
2-Chlorophenanthrene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
2,4-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
2,6-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
1,2-Diphenylhydrazine	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Fluorene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
4-Chlorophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
N-nitrosodimethylaniline	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
N-nitroso-N-propylaniline	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Bis(2-ethylphenyl)phthalate	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Butylbenzyl phthalate	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Dibutyl phthalate	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Dioctyl phthalate	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Benzo(a)anthracene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Benzo(a)pyrene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
3,4-Benzofluoranthene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Benzo(k)fluoranthene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Chrysene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Acenaphthylene	(100)0.7	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Anthracene	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		
Is(2-chloroethoxy)methane	NE	NE	ND	ND	ND	ND	ND	NO	ND	NO	ND	NO		

RAS = Radian Analytical Services  
EAC = Radian Analytical Services

ND = Nothing detected  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-23D	M4-23D	M4-23D	M4-23S	M4-23S	M4-24D	M4-24D	M4-24D	M4-24D	M4-24D
Date Sampled			08/28/82	09/26/84	03/17/86	03/17/86	04/28/82	08/13/82	09/29/84	04/28/82	08/12/82	09/27/84
Sampled By			ES	RADIAN	RADIAN	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN
Date Analyzed				10/11/84	04/01/86	04/01/86			10/12/84			10/11/84
Lab			CAL	RAS	SAC	SAC	CAL	CAL	RAS	CAL	CAL	RAS
Field Analysis					FTD	FTD						
Lab Analysis												
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Leptocyclo	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
P-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrochlorophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Thiophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 MW = Monitoring Well  
 FTA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NE = Not established

[illegible]

ALL UNITS ARE UG/L

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
CAL = California Analytical Labs  
RAS = Radian Analytical Services

ND = Nothing detected  
LOQ = Limit of quantitation  
NE = Not established

[illegible]

ALL UNITS ARE UP/1  
MW - Monitoring Wall

RADIAN = Radian Corporation, Sacramento  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-265	M4-265	M4-265	M4-265	M4-270	M4-270	M4-270	M4-270	M4-275	M4-275
Date Sampled			09/27/84	06/16/82	08/11/82	09/29/84	04/28/82	08/12/82	10/01/84	10/01/84	04/28/82	08/12/82
Sampled By			RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	RADIAN	ES	ES
Date Analyzed			10/11/84			10/12/84			10/12/84	10/12/84		
Lab			RAS	CAL	CAL	RAS	CAL	CAL	RAS	RAS	CAL	CAL
Field Analysis												
Lab Analysis									FDA	FDB		
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	750	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Diphenylhydrazine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzofluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(k)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

CAL = California Analytical Labs

RAS = Radian Analytical Services

NO = Nothing detected

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-260	M4-265	M4-265	M4-265	M4-270	M4-270	M4-270	M4-270	M4-270	M4-275
Date Sampled			09/27/84	06/16/82	08/11/82	09/24/84	04/28/82	08/12/82	10/01/84	10/01/84	10/01/84	09/12/84
Sampled By			RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/11/84			10/12/84			10/12/84	10/12/84	10/12/84	10/04/84
Lab			RAS	CAL	CAL	RAS	CAL	CAL	RAS	RAS	RAS	RAS
Field Analysis									ETA	ETA	ETA	
Lab Analysis												
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophorone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Epithalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Microbenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
P-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrochlorophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-g,h,l)phenylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

ETA = First field duplicate analysis

ETA = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CAL = California Analytical Labs

RAS = Radian Analytical Services

NO = Nothing detected

NE = Not established

[illegible]

ALL RIGHTS RESERVED

17th Ave SE - NW

FFA = FARMING WITH  
FDA = FIRST FIELD duplicate analysis

STYLUS - Second field plots process - BL

**RADIANT** = Radiant Corporation, Sacramento

ES = Engineering Science, Inc.

**ES** = Engineering Science, Inc.  
**CAL** = California Analytical Labs

— RadLan Analytical Services

ND = Nothing detected

LOQ = Limit of quantitation

( ) = Data decision criteria

NE = Not established

ND or Nothing detected

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-28D	M4-28D	M4-28D	M4-28D	M4-28D	M4-28D	M4-28D	M4-28D	M4-28D	M4-28S
Date Sampled			06/16/82	08/17/82	09/26/84	04/28/82	08/16/82	10/01/84	04/03/86	10/01/84	04/03/86	04/28/82
Sampled By			ES	ES	RADIANT	ES	ES	RADIANT	RADIANT	RADIANT	RADIANT	ES
Date Analyzed					10/11/84			10/15/84	04/14/86	10/15/84	04/14/86	
Lab			CAL	CAL	RAS	CAL	CAL	RAS	SAC	RAS	SAC	CAL
Field Analysis								FTA	FTA	FTA	FTA	
Lab Analysis												
Benzothiazolene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzothiazolopentathien	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Leptobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dioxin	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-chloro-m-cresol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrooxyphenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
But(2-chloroisopropyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

CAL = California Analytical Labs

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

[illegible]

ALL UNITS ARE UG/

RADIAN = Radian Corporation, Sacramento  
 SES = Engineering Science, Inc.  
 CAL = California Analytical Labs  
 ND = Nothing detected  
 LOQ = Limit of quantitation  
 NE = Not established

= Radian Analytical Services, Sacramento  
 = Radian Analytical Services, Sacramento

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-29S	M4-30S	M4-30S	M4-30S	M4-31S	M4-31S	M4-31S	M4-31S	M4-33S	M4-36S
Date Sampled			08/16/82	06/16/82	08/17/82	09/18/84	06/16/82	08/17/82	09/25/84	03/28/86	09/18/84	09/29/82
Sampled By			ES	ES	ES	RADIAN	ES	ES	RADIAN	RADIAN	RADIAN	ES
Date Analyzed						10/06/84			10/10/84	04/08/86	10/07/84	
Lab			CAL	CAL	CAL	RAS	CAL	CAL	RAS	SAC	RAS	CAL
Field Analysis												
Lab Analysis												
Benzochlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dioxin	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-chloro-m-cresol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrooxydiphenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benitidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Acetylphenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
WJ = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary MCL	M4-36S	M4-37	M4-38D	M4-38S	M4-40S	M4-40S	M4-40S	M4-40S	M4-41S	
Date Sampled			09/17/84	09/28/82	09/27/82	08/09/83	09/14/84	09/29/82	09/30/84	09/24/84		
Sampled By			RADIAN	ES	ES	RAS	RADIAN	ES	RADIAN	RADIAN		
Date Analyzed			10/05/84	04/09/86		08/19/83	10/05/84		10/12/84	10/10/84		
Lab			RAS	SAC	CAL	RAS	RAS	CAL	RAS	RAS		
Field Analysis												
Lab Analysis												
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Chlorophthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
1,2-Dichloroethylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Fluorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Nitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Nitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Nitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzo(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzo(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
3,4-Benzofluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzo(k)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bis(2-chloroethyl) methylene	(100)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	

ALL UNITS ARE ug/l  
 M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	M4-36S	M4-37	M4-38D	M4-39D	M4-39S	M4-40S	M4-40S	M4-40S	M4-41S
Date Sampled			09/17/84	09/28/82	09/27/82	08/09/83	09/14/84	09/29/82	09/30/84	09/30/84	09/24/84
Sampled By			RADIAN	ES	ES	RAS	RADIAN	ES	RADIAN	RADIAN	RADIAN
Date Analyzed			10/05/84	04/09/86		08/19/83	10/05/84		10/12/84	10/12/84	10/10/84
Lab			RAS	SAC	CAL	RAS	RAS	CAL	RAS	RAS	RAS
Field Analysis											
Lab Analysis											
Benzochloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophorone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloro-4-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrochlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrochlorophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Benzophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a,h,i)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-41S	M4-42S	M4-43S	M4-44S	M4-45S	M4-46S	M4-47S	M4-48S	M4-49S	M4-50S
Date Sampled			03/13/86	09/27/82	09/14/82	09/13/84	03/21/86	09/14/82	09/19/84	09/14/82	09/19/84	09/29/82
Sampled By			RADIAN	ES	ES	RADIAN	RADIAN	ES	RADIAN	ES	RADIAN	ES
Date Analyzed			03/31/86	10/11/84	10/04/84	10/09/84	04/02/86	10/07/84	10/07/84	10/07/84	10/07/84	10/07/84
Lab			SAC	RAS	RAS	RAS	SAC	RAS	RAS	RAS	RAS	CAL
Field Analysis												
Lab Analysis												
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Diphenylhydrazine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzophenone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzophenone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzo-fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzophenone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOD)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) methylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
CAL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-41S	M4-42S	M4-42S	M4-43S	M4-44S	M4-44S	M4-44S	M4-45S	M4-45S	M4-46S
Date Sampled			03/13/86	09/27/82	09/28/84	09/14/82	09/13/84	09/13/82	09/21/84	03/21/86	09/14/82	09/19/84
Sampled By			RADIAN	ES	RADIAN	ES	RADIAN	ES	RADIAN	RADIAN	ES	ES
Date Analyzed			03/31/86		10/11/84		10/04/84		10/09/84	04/02/86		10/07/84
Lab			SAC	CAL	RAS	CAL	RAS	CAL	RAS	SAC	CAL	RAS
Field Analysis												
Lab Analysis												
Benzochlorobenzene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophorone	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Regidolene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Parathion	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
p-chloro-o-cresol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perachlorophenol	30		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodiphenylamine	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
CAL = California Analytical Labs  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-46S	M4-46S	M4-47S	M4-49	M4-59	M4-59	M4-61	M4-61	M4-63	M4-67
Date Sampled			09/29/82	09/29/84	10/01/84	09/29/82	04/02/86	03/19/86	04/02/86	04/02/86	04/02/86	03/20/86
Sampled By			ES	RADIAN	RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/12/84	10/12/84		04/09/86	04/01/86	04/10/86	04/10/86	04/10/86	04/02/86
Lab			CAL	RAS	RAS	CAL	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis							LDA	LDB				
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Acenaphthene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Benzochloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
1,2-Diphenylhydrazine	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
N-nitrosodimethylamine	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
N-nitrosodi-n-propylamine	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	20(53.3)	23(53.3)	NA	NO	NO	NO
Benzylbenzyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Benz(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Benz(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
3,4-Benzofluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Benz(k)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Anthracene	(100)0.7	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NO	NO	NO	NO	NO	NO	NA	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDB = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

CAL = California Analytical Labs

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DBS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-46S	M4-47S	M4-49	M4-59	M4-59	M4-61	M4-63	M4-63	M4-63	M4-67
Date Sampled			09/29/82	10/01/84	09/29/82	04/02/86	04/02/86	03/19/86	04/02/86	04/02/86	04/02/86	03/20/86
Sampled By			ES	RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				10/12/84		04/09/86	04/10/86	04/01/86	04/10/86	04/10/86	04/10/86	04/02/86
Lab			CAL	RAS	CAL	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis						LDA	LDB					
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Leptocyclohexene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
p-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
4-Nitrooxydiphenylamine	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
4-Bromophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Bis(2-chloroethoxy) ether	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Bis(2-chloroethoxy) ether	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NA	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CAL = California Analytical Labs

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-100	M4-100	M4-100	M4-101	M4-101	M4-101	M4-102	M4-102	M4-102	M4-103
Dose Sampled			12/21/85	12/21/85	02/27/86	11/18/85	11/18/85	03/05/86	03/11/86	03/11/86	03/11/86	12/20/85
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Dose Analyzed			01/07/86	01/07/86	03/11/86	11/25/85	11/25/85	03/24/86	04/01/86	03/28/86	03/28/86	01/07/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDA								FDA
Lab Analysis						LDA	LDB		LDA	LDA	LDB	LDA
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
1,4-Dichlorobenzene	750	NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Acenaphthene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
1,2,4-Trichlorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Benzochlorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Benzochlorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Bis(2-chloroethyl)ether		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
2-Chloronaphthalene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
3,3'-Dichlorobenzidine		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
2,4-Dinitrotoluene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
2,6-Dinitrotoluene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
1,2-Dichloroethylene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Fluorobenzene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
4-Chlorophenyl phenylether		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
N-nitrosodimethylamine		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
N-nitrosodi-n-propylamine		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Bis(2-ethylhexyl)phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Bis(2-ethylhexyl)phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Di-n-butyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Di-n-octyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Diethyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Dimethyl phthalate		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Benzo(a)anthracene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Benzo(b)fluoranthene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Benzo(k)fluoranthene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Chrysene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Acenaphthylene		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Anthracene	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO
Bis(2-chloroethoxy)ethane		NE	NO	NO	NO	NO	NO	NO	NO	NA	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA		WELL NUMBER								
		Primary MCL	M4-103	M4-103	M4-103	M4-104	M4-105	M4-105	M4-106	M4-107		
Date Sampled			12/20/85	03/11/86	03/11/86	12/15/85	03/26/86	12/21/85	03/27/86	11/21/85	03/13/86	11/07/85
Sampled By			RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN	RAOJAN
Date Analyzed			01/07/86	03/31/86	03/28/86	12/20/85	04/02/86	01/07/86	04/08/86	11/30/85	03/31/86	11/14/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			PTB									
Lab Analysis			LTB									
1,3-Dichlorobenzene	130	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	750	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Acesulfame	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Benzchlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Benzchlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2-Chlorophthalene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrochlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrochlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
4-nitroaniline	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
4-nitroanisole	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylphenyl) phthalate	NE	NE	4	ND	NA	ND	ND	ND	18(53.3)	ND	ND	ND
Bis(2-ethylphenyl) phthalate	NE	NE	4	ND	NA	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	NE	4	ND	NA	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
3,4-Benzofluoranthene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Anthracene	(LD)0.7	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Anthracene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Anthracene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND

**ALL UNITS ARE 12/1**

1790 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 14000 15000 16000 17000 18000 19000 20000 21000 22000 23000 24000 25000 26000 27000 28000 29000 30000 31000 32000 33000 34000 35000 36000 37000 38000 39000 40000 41000 42000 43000 44000 45000 46000 47000 48000 49000 50000 51000 52000 53000 54000 55000 56000 57000 58000 59000 60000 61000 62000 63000 64000 65000 66000 67000 68000 69000 70000 71000 72000 73000 74000 75000 76000 77000 78000 79000 80000 81000 82000 83000 84000 85000 86000 87000 88000 89000 90000 91000 92000 93000 94000 95000 96000 97000 98000 99000 100000

FFA = First field duplicate analysis

FTB = First field duplicate analysis  
FTD = Second field duplicate analysis

UD3 = Second Laboratory duplicate analysis

**RADIAN = Radian Comparison. Sacramento**

SAC = Radtke Analytical Services, Sacramento

LLO = Limit of quantitation

( ) = Data decision criteria

ND = Nothing detected

NA = Not analyzed

LLO = Limit of quantitation

( ) = Data decision criteria

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-103	M4-103	M4-103	M4-103	M4-104	M4-105	M4-105	M4-106	M4-106	M4-107
Data Sampled			12/20/85	12/20/85	03/11/86	03/11/86	12/15/85	03/27/86	11/21/85	03/13/86	11/07/85	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Data Analyzed			01/07/86	01/07/86	03/31/86	03/31/86	12/20/85	04/02/86	11/30/85	03/31/86	11/14/85	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis			FTB	FTB								
Lab Analysis			LDB	LDB								
Benzochlorobenzene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Leptobenzene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Naphthalene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Dioxin	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
p-chloro- <i>m</i> -cresol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
4,6-Dinitro- <i>o</i> -cresol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Perachlorophenol	30	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
4-Nitrooxydiphenylamine	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Benzidine	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenyl ether	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = First field duplicate analysis

LDB = Second field duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-107	M4-108	M4-108	M4-110	M4-110	M4-111	M4-111	M4-112	M4-112	M4-114
Date Sampled			04/01/86	12/27/85	04/01/86	11/06/85	03/31/86	04/03/86	04/03/86	12/20/85	04/02/86	11/11/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/09/86	01/08/86	04/09/86	11/13/85	04/09/86	04/14/86	04/14/86	01/07/86	04/10/86	11/19/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	750	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Diphenylhydrazine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Olefinyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrophenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(4-nonyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(4-nonyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Dinitrofluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(4-nonyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOD)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)benzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FIA = First field duplicate analysis  
 FIB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-107	M4-108	M4-108	M4-110	M4-110	M4-110	M4-111	M4-111	M4-111	M4-114
Date Sampled			04/01/86	12/27/85	04/01/86	11/06/85	03/31/86	11/06/85	04/03/86	04/03/86	12/20/85	04/02/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/09/86	01/08/86	04/09/86	11/13/85	04/09/86	11/13/85	04/14/86	04/14/86	01/07/86	04/10/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Isophenols	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrophenols	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
p-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	2	NO	NO	5	3	8	3	3	3	NO
4-nitrooxydiphenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nonaphenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)-ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(o,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

NE = First field duplicate analysis

NO = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established

[illegible]

**UNITED STATES**

**NY - Monitoring Well**

**FDA = First field duplicate analysis**

**FTB - Second field duplicate analysis**

LDA = First Laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

**RADIANT** = Radiant Corporation, Sacramento

SSAC = Radiation Analytical Services, Sacramento

( ) = Data decision crit

NE = Not established

ND = Nothing detected

100 = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	WELL NUMBER									
		M4-114	M4-115	M4-116	M4-116	M4-116	M4-116	M4-117	M4-118	M4-119	M4-120
Data Sampled		02/28/86	12/19/85	03/06/86	11/11/85	11/11/85	02/28/86	03/04/86	03/25/86	03/05/86	03/04/86
Sampled By		RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed		03/13/86	12/30/85	03/25/86	11/19/85	11/19/85	03/14/86	03/24/86	04/02/86	03/24/86	03/24/86
Lab		SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FDA	FTB	LDA				
Lab Analysis							LDB				
Benzochlorobenzene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Leptophene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Epithalene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bitrichene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Polychloro-ortho-cresol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	30	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrochlorophenylamine	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benidine	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Benzophenyl phenylether	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzos(g,h,i)perylene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

[illegible]

THEY BELIEVE - 194  
1/2N 28N STION TWA  
ALL UNITS ARE 12/1

ND = Nothing detected  
NA = Not analyzed  
LQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

Analytical data for M-137, M-140 and M-141 appear under E-137, E-140 and E-141

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-121	M4-122	M4-123	M4-124	M4-125	M4-126	M4-127	M4-1000	M4-1000	M4-1001
Date Sampled			02/26/86	02/26/86	03/25/86	02/25/86	02/25/86	03/03/86	03/04/86	12/12/85	03/07/86	12/18/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/11/86	03/11/86	04/02/86	03/11/86	03/11/86	03/11/86	03/24/86	12/20/85	03/27/86	12/30/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	RAS
Field Analysis												
Lab Analysis												
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Benzocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Isophenone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Fluorethene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Indene(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
p-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
2,4-Dimethylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Perachlorophenol	NO	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Phenol	NE	NE	3	NO	NO	2	NO	NO	NO	NO	NO	NA
m-nitrosodiphenylamine	NE	NE	6	NO	NO	2	4	7	NO	NO	NO	NA
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
4-Acetylphenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Bis(4-h,1)phenylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NA

ALL UNITS ARE ug/l  
 M4 - Monitoring Well  
 RADIAN = Radian Corporation, Sacramento  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-1001	M4-1002	M4-1002	M4-1002	M4-1002	M4-1003	M4-1003	M4-1004	M4-1005	M4-1005
Date Sampled			04/04/86	11/07/85	04/02/86	04/02/86	04/02/86	12/18/85	03/18/86	12/17/85	12/17/85	03/14/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/14/86	11/14/85	04/10/86	04/10/86	04/10/86	12/27/85	04/01/86	12/23/85	12/23/85	03/31/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FOA	FOA	FOA			LDA	LDA	
Lab Analysis												
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	2	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
5,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichloroethylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
β-nitrodimethylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
β-nitrodi-n-propylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,4-Benzofluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOD)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) methane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FOA = First field duplicate analysis

FOB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

LOQ = Limit of quantitation

NE = Not established

[illegible]

**ALL UNITS ARE U/1**

ITPH 20120704 - 154

FIDA = First field duplicate analysis

FFDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

UTB = Second laboratory duplicate analysis

### How to Submit Manuscripts

**RADIAN = Radian Comorbidities. Sacramento**

SAC = Radian Analytical Services, Sacramento

**THE UNIVERSITY OF CHICAGO**

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	Well Number	M4-1009	M4-1010	M4-1011	M4-1012	M4-1013	M4-1013	M4-1014
Date Sampled			12/19/85	03/22/86	04/08/86	04/08/86	11/05/85	03/27/86	11/15/85	03/06/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/30/85	04/02/86	04/14/86	04/14/86	11/13/85	04/08/86	11/25/85	03/27/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis										
1,3-Dichlorobenzene	130	NE	ND	ND	3	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	750	NE	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	NE	NE	ND	ND	2	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
3,4-Benzofluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benz(k)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	(LOQ)0.7	NE	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-1009	M4-1010	M4-1011	M4-1012	M4-1013	M4-1013	M4-1013	M4-1013	M4-1013	M4-1014
Date Sampled				12/19/85	04/08/86	04/08/86	04/08/86	04/08/86	04/08/86	04/08/86	04/08/86	04/08/86	04/08/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				12/30/85	04/14/86	04/14/86	04/14/86	04/14/86	04/14/86	04/14/86	04/14/86	04/14/86	04/14/86
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis					FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Isophorene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dioxin	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-chloro-o-cresol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	400	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	30	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrosodiphenylamine	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-phenylphenyl phenylether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

[illegible]

UDA = First laboratory duplicate analysis



## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Priority MCL	Well Number	MA-1015	MA-1016	MA-1017	MA-1018	MA-1019	MA-1019
Date Sampled			03/12/86	12/14/85	03/25/86	11/08/85	03/18/86	11/18/85	03/14/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/28/86	12/20/85	04/03/86	11/19/85	04/01/86	12/30/85	03/31/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis									
Lab Analysis									LDA
Leptochlorin	NE	NE	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO
Dioxin	NE	NE	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO
p-chloro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	NE	400	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE	NE	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	NE	30	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO
N-nitrosodiphenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO
4-Acetylphenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO
Bis(4-h.i.)phenylene	NE	NE	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 MA = Monitoring Well  
 LDA = First Laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 605 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			M4-1019	M4-1020	M4-1020	M4-1020	M4-1020	Q4-136	Q4-136	Q4-148	Q4-155	Q4-158	Q4-354	
Date Sampled			03/14/86	11/08/85	11/08/85	03/07/86	03/07/86	03/21/86	03/21/86	03/21/86	04/14/86	03/31/86	04/11/86	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			03/31/86	11/19/85	11/19/85	03/27/86	03/27/86	02/03/86	02/03/86	02/03/86	04/22/86	05/07/86	05/07/86	
Lab			SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	SAC	SAC	SAC	
Field Analysis			LDB	LDB	LDB	LDB	LDB	LDA	LDB	LDB				
Lab Analysis														
1,1,3-Dichlorobenzene	130	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
1,2-Dichlorobenzene	130	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
1,4-Dichlorobenzene		750	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Nonaphthene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
1,1,2,4-Trichlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Benzchlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Benzchlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Bis(2-chloroethyl) ether	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
2-Chloroethylbenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
3,3',3'-Dichlorobenzidine	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
2,4-Dinitrochlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
2,6-Dinitrochlorobenzene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
1,2-Diphenylhydrazine	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Fluoranthene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
4-Chlorophenyl phenyl ether	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
4-Nitrophenyl phenyl ether	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
4-Nitrophenyl phenyl ether	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Bis(2-ethylhexyl) phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Bis(2-ethylhexyl) phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Di-n-butyl phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Di-n-octyl phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Diethyl phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Dimethyl phthalate	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Benzo(a)anthracene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Benzo(a)pyrene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
3,4-Benzofluoranthene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Benzo(k)fluoranthene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Chrysene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Acenaphthylene	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Anthracene	(100)0.7	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	
Bis(2-chloroethoxy)methane	NE	NE	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Action Level	U.S.EPA Primary MCL	WELL NUMBER										
			M4-1019	M4-1020	M4-1020	M4-1020	M4-1020	04-136	04-136	04-148	04-155	04-158	04-354
Date Sampled			03/14/86	11/08/85	11/08/85	11/08/85	03/07/86	01/21/86	01/21/86	01/21/86	04/14/86	03/31/86	04/11/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/31/86	11/19/85	11/19/85	11/19/85	03/27/86	02/03/86	02/03/86	02/03/86	04/22/86	05/07/86	05/07/86
Lab			SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	SAC	SAC	SAC
Field Analysis			LDB	LDB	LDB	LDB	LDB	LDA	LDB				
Lab Analysis													
Benzchlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Benzchlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Leptoceros	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Naphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Nitrobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Dioxin	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
p-chloro-o-cresol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-o-cresol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Perachlorophenol	30	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	1.8	1.2
4-nitroendiphenylamine	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA
Benzidine	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA
4-Bromophenyl phenylether	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA
Bis(2,4,6-trichlorophenyl)ether	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA
Fluorene	NE	NE	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

CH = Off base residential well

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

ND = Not established

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES Analyze Level	U.S. EPA Priority ML	WELL NUMBER							
			04-654	04-999	04-999	04-911	04-917	04-918	04-918	
Date Sampled			04/15/86	04/16/86	04/16/86	07/11/85	09/19/85	11/20/85	07/11/85	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			05/07/86	04/24/86	05/07/86	11/30/85	09/30/85	11/30/85	07/29/85	
Lab			SAC	SAC	SAC	RAS	RAS	RAS	RAS	
Field Analysis						LDA	LDB		LDA	
Lab Analysis										
1,1,3-Dichlorobenzene	130	NE	NA	ND	NA	NO	ND	NO	ND	
1,2-Dichlorobenzene	130	NE	NA	ND	NA	NO	ND	NO	ND	
1,4-Dichlorobenzene	NE	750	NA	ND	NA	NO	ND	NO	ND	
Aroclor 1248	NE	NE	NA	ND	NA	NO	ND	NO	ND	
1,2,4-Trichlorobenzene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Benzene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Toluene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Bis(2-chloroethyl) ether	NE	NE	NA	ND	NA	NO	ND	NO	ND	
2-Chlorophenol	NE	NE	NA	ND	NA	NO	ND	NO	ND	
2,3,3'-Dichlorobenzidine	NE	NE	NA	ND	NA	NO	ND	NO	ND	
2,4-Dinitrotoluene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
2,6-Dinitrotoluene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
1,2-Diphenylhydrazine	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Fluorene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
4-Chlorophenyl phenyl ether	NE	NE	NA	ND	NA	NO	ND	NO	ND	
p-nitrosodimethylaniline	NE	NE	NA	ND	NA	NO	ND	NO	ND	
m-nitrosodimethylaniline	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Bis(2-ethylphenyl) phthalate	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Dibutyl phthalate	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Di-n-butyl phthalate	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Di-octyl phthalate	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Dioctyl phthalate	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Benzo(a)anthracene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Benzo(b)pyrene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
3,4-Benzofluoranthene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Benzo(k)fluoranthene	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Oxycresols	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Acetophenone	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Nitrobenzene	(100)0.7	NE	NA	ND	NA	NO	ND	NO	ND	
Bis(2-chloroethyl) methanes	NE	NE	NA	ND	NA	NO	ND	NO	ND	
Bis(2-chloroethyl) sulfones	NE	NE	NA	ND	NA	NO	ND	NO	ND	

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
OW = Off base residential well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

**ALL LIMITS ARE 12/1**

IDA = First laboratory duplicate analysis

**IDB = Second Laboratory duplicate analysis**

ITAN TETAP TERJANGKAP SAMA 330 = 410

MASTER LOG OF WELLS SAMPLED FOR U.S. EPA METHOD 625 ANALYTES (SEPTEMBER 1980-APRIL 1986)

Parameter	DES	U.S. EPA	Primary	OH-520	OH-654	OH-899	OH-899	OH-911	OH-911	OH-911	OH-917	OH-918	OH-918
Action	Level	ML											
Date Sampled			04/15/86	04/14/86	04/16/86	04/16/86	04/16/86	07/11/85	09/19/85	11/20/85	07/11/85	03/26/84	07/11/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	CRACB	RADIAN
Date Analyzed			05/07/86	05/07/86	04/24/86	05/07/86	05/07/86	07/30/85	09/30/85	11/30/85	07/30/85	04/10/84	07/29/85
Lab			SAC	SAC	SAC	SAC	SAC	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis													
Lab Analysis								LDA	LDB				LDA
Benzochlorocyclopentadiene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Naphthene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Epithalene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Microbenzene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Fluorene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Pyrene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Dieldrin	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
p-Chloro-o-cresol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
4,6-Dinitro-o-cresol	NE		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30		NO	NO	NA	NA	NA	NO	NO	NO	NO	NO	NO
Fluorol	NE		1.5	1.5	NA	NA	NA	2.0	NO	NO	NO	NO	NO
p-Nitrosodiphenylamine	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Benzidine	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
4-Benzophenyl phenyl ether	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Benz(g,h,i)pyrene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO
Fluorene	NE		NA	NA	NA	NA	NA	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
GM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
NE = Not established

[illegible]

**ALL UNITS ARE 1/1**

LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis

Then  $\text{tr}(\text{Im} p_i) \leq \text{tr} p_i = \text{tr} p_i^* = \text{tr} p_i^* \text{Im} p_i = \text{tr} \text{Im} p_i^* = \text{tr} \text{Im} p_i$ .

SAC  
= Radisson Analytical Services, Sacramento

SAC  
= Radiation Analytical Services,

SAC  
= Radisson Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

LOQ = Limit of quantitation

NE = Not established



ALL UNITS ARE ug/l

EW = Extraction well  
PW = Base production well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
B = Compound detected in laboratory blank - not edited  
LOQ = Limit of quantitation  
NE = Not established

Analytical data for EM-63 and EM-69 appear under EM-63 and EM-69



## MASTER LOG OF WELLS SAMPLED FOR METHEID 625 ANALYSIS (SEPTEMBER 1986 - PRESENT)

Parameter	IS	U.S. EPA	Ac'lon	Level	MCL	WELL NUMBER									
						BH-10	BH-13	BH-18	BH-29	BH-73	BH-73	BH-83	BH-84	BH-84	BH-85
Date Sampled						12/04/86	12/04/86	12/04/86	12/04/86	10/24/87	04/06/88	10/24/87	04/06/88	10/24/87	10/24/87
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed						12/17/86	12/17/86	12/17/86	12/17/86	11/17/87	04/15/88	11/17/87	04/15/88	11/17/87	11/17/87
Lab						SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis															
Lab Analysis															
Naphthalene	NE	NE	NE	NE	NE	NO	NO	NO	NO	19	18	NO	NO	NO	NO
Nitrobenzene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	30	NE	NE	NE	NE	NO	NO	NO	NO	9.7	2.8	NO	NO	NO	NO
4-Nitrooxydiphenylamine	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benidine	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzog(h,i)pyrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NE	NE	NE	NE	NO	NO	NO	NO	38	60	NO	NO	NO	NO
2-Methylisophthalene	NE	NE	NE	NE	NE	NO	NO	NO	NO	200	NO	NO	NO	NO	NO
2,4,5-Trichlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

BH = Extraction Well

BH = Base production well

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	IHS Ac-ion Level	U.S. EPA Primary MCL	WELL NUMBER									
			BM-10	BM-13	BM-18	BM-29	BM-73	BM-83	BM-83	BM-84	BM-84	BM-85
Date Sampled			12/04/86	12/04/86	12/04/86	12/04/86	10/24/87	04/06/88	10/24/87	04/06/88	04/06/88	10/24/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/17/86	12/17/86	12/17/86	12/17/86	11/17/87	11/17/87	11/16/87	04/15/88	04/15/88	11/17/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

BM = Extraction Well

BM = Base production well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES U.S. EPA		WELL NUMBER										Date Sampled Sampled By	Date Analyzed Lab	Field Analysis Lab Analysis
	Action:	Primary Level	EA-85	EA-86	EA-87	EA-86	EA-87	EA-87	EA-87	EA-10	EA-11	EA-12	EA-14	EA-15	EA-180
1,3-Dichlorobenzene	NE	130	NO	NO	NO	NO	NO	NO	NO	3.6	2.2	NO	13	NO	NO
1,2-Dichlorobenzene	NE	130	NO	NO	NO	NO	NO	NO	NO	170	8.7	NO	15	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	18	NO	NO	6.3	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	118(23.04)	NO	NO	NO
Benzylbenzyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibutyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibutyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzos(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzos(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzos(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(10)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)benzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

EA = Monitoring Well

EA = Extraction Well

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected

B = Compound detected in Laboratory blank - not edited

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Action Level	EA-85	EA-86	EA-87	EA-87	EA-87	EA-10	EA-11	EA-12	EA-14	EA-15	EA-18D
Date Sampled		04/06/88	10/24/87	04/06/88	10/24/87	04/07/88	10/26/87	10/27/87	10/23/87	10/26/87	10/26/87	12/03/86
Sampled By		RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed		04/15/88	11/17/87	04/15/88	11/17/87	04/14/88	11/17/87	11/17/87	11/17/87	11/17/87	11/17/87	12/12/86
Lab		SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Isophorene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NO	NO	NO	NO	NO	NO	3.5	NO	NO	NO	NO
Nitrobenzene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	30	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzodiphenylamine	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(g,h,i)perylene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylnaphthalene	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,5-Trichlorophenol	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
EA = Extraction Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			EA-85	EA-86	EA-86	EA-87	EA-87	EA-87	MA-10	MA-11	MA-12	MA-14	MA-15	MA-18D
Date Sampled			04/06/88	10/24/87	04/06/88	10/24/87	04/07/88	10/26/87	10/26/87	10/27/87	10/23/87	10/26/87	10/26/87	12/03/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/15/88	11/17/87	04/15/88	11/17/87	04/14/88	11/17/87	11/17/87	11/17/87	11/17/87	11/17/87	11/17/87	12/12/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

MA = Monitoring Well  
EA = Extraction Well

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-19D	M4-19S	M4-20D	M4-21D	M4-21S	M4-21S	M4-21S	M4-22D	M4-22D	M4-23D	M4-24D
Date Sampled			10/26/87	10/16/86	01/29/87	09/30/86	01/25/88	01/25/88	07/26/88	01/23/87	01/23/87	10/16/86	09/26/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/17/87	10/27/86	02/24/87	10/13/86	02/16/88	02/16/88	08/11/88	02/23/87	02/23/87	10/27/86	10/09/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	750	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	NE	NE	8.68(23.04)	1.48(8.25)	ND	ND	ND	ND	ND	27(44.1)	12(105.8)	ND	ND
Bis(2-ethylhexyl)phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	67(105.8)	ND	ND	ND
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	(LOQ)0.7	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)phenylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Priority	M4-19D	M4-19S	M4-20D	M4-21S	M4-21S	M4-21S	M4-22D	M4-22D	M4-23D	M4-24D
Date Sampled			10/26/87	10/16/86	01/29/87	09/30/86	01/25/88	01/26/88	01/23/87	01/23/87	10/16/86	09/26/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/17/87	10/27/86	02/24/87	10/13/86	02/16/88	08/11/88	02/19/87	02/23/87	10/27/86	10/09/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis									LDA	LDB		
Hexachlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	2.7	1.98	NO	NO	NO	NO	NO	NO
p-nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(g,h,i)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-19S	M4-20D	M4-21D	M4-21S	M4-21S	M4-22D	M4-23D	M4-24D	M4-25D	M4-26D
Date Sampled				10/26/87	10/16/86	01/29/87	09/30/86	09/30/86	01/23/87	01/23/87	01/23/87	10/16/86	09/26/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				11/17/87	10/27/86	02/24/87	10/13/86	10/13/86	02/19/87	02/19/87	02/23/87	10/27/86	10/09/86
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
2,4,5-Trichlorophenol	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LTB - Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA	Primary	MCL	M4-27D	M4-27D	M4-27D	M4-27D	M4-28D	M4-28D	M4-28D	M4-31S	M4-33S	M4-33S	M4-33S
	Action														
	Level														
Date Sampled					01/26/88	07/20/88	07/20/88	07/20/88	01/27/88	07/21/88	12/03/86	08/12/87	01/29/87	01/29/87	04/16/87
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed					02/16/88	08/11/88	08/11/88	02/16/88	02/16/88	08/11/88	12/15/86	08/20/87	02/24/87	02/24/87	04/30/87
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis															
Lab Analysis					LDA	LDA	LDB	LDB							
1,3-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	3.4	3.3	3.6
1,2-Dichlorobenzene	130	NE			ND	ND	ND	ND	ND	ND	ND	ND	11	10	14
1,4-Dichlorobenzene		750			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7
Aroclor 1248		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrochlorobenzene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrochlorobenzene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenyl ether		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenyl ether		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenyl ether		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate		NE			ND	ND	ND	ND	ND	ND	ND	ND	3.68	3.38	ND
Di-n-butyl phthalate		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorocyclopentadiene		NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LQ = Limit of quantitation

NE = Not established

[illegible]

44 = Monitoring Well  
 F1A = First field duplicate analysis  
 F2B = Second field duplicate analysis  
 F1A = First Laboratory duplicate analysis  
 F2B = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA		WELL NUMBER										
		Primary MCL		M4-27D	M4-27D	M4-27D	M4-28D	M4-28D	M4-28D	M4-29D	M4-31S	M4-33S	M4-33S	
Date Sampled				01/26/88	07/20/88	07/20/88	01/27/88	01/27/88	01/27/88	12/03/86	08/12/87	12/03/86	01/29/87	04/16/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				02/16/88	08/11/88	08/11/88	02/16/88	02/16/88	08/11/88	12/15/86	08/20/87	12/15/86	02/24/87	04/30/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis				LDA	LDA	LDB							FDA	FDB
2,4,5-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NE - Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA	Action	Primary	MOI	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-36S	M4-36S	M4-36S	M4-36S	M4-41S
Date Sampled						07/31/87	07/31/87	10/26/87	01/08/88	04/25/88	07/21/88	07/21/88	09/17/88	04/16/87	04/16/87	11/18/86
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed						08/11/87	08/11/87	11/17/87	01/21/88	04/29/88	08/11/88	08/11/88	09/24/86	05/01/87	05/01/87	12/01/86
Lab						SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis																
Lab Analysis						LDA	LDB				LDA	LDB		LDA	LDB	FDA
1,3-Dichlorobenzene	130	NE				2.8	ND	3.1	3.8	4.1	3.8	4.3	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE				12	12	18	31	30	31	35	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	750				ND	ND	5.0	7.7	7.5	7.5	8.4	ND	ND	ND	ND
Aroclor 1248	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl ether	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NE	NE				1.38	2.68	ND	ND	ND	ND	ND	4.9(8.25)	2.78	2.98	ND
Di-n-butyl phthalate	NE	NE				1.48	3.08	ND	ND	ND	ND	ND	8.78	278(46.73)	5.78	ND
Di-n-octyl phthalate	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	(100)0.7	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)amine	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

MA = Monitoring Well

FA = First field duplicate analysis

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

LQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-36S	M4-36S	M4-36S	M4-41S
Date Sampled			07/31/87	07/31/87	10/26/87	01/08/88	04/25/88	07/21/88	07/21/88	09/17/86	04/16/87	11/18/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/11/87	08/11/87	11/17/87	01/21/88	04/29/88	08/11/88	08/11/88	09/24/86	05/01/87	12/01/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB				LDA	LDB	LDA	LDB	FDA
Lab Analysis												
Benzhexocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	1.7	1.7	1.9	2.2	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Permethrin	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Iridene(1,2,3-c)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Permethrinophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrooxyphenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	2.3	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloromethoxy)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromo(g,h,i)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylanthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-36S	M4-36S	M4-36S	M4-36S	M4-41S
Date Sampled			07/31/87	10/26/87	01/08/88	04/25/88	07/21/88	09/17/86	04/16/87	04/16/87	04/16/87	11/18/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/11/87	11/17/87	01/21/88	04/29/88	08/11/88	09/24/86	05/01/87	05/01/87	05/01/87	12/01/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB			LDB		LDA	LDB	LDB	FDA
Lab Analysis												
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

LDA - First Laboratory duplicate analysis

LDB - Second Laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

SAC - Radian Analytical Services, Sacramento

NO - Nothing detected

NE - Not established

[illegible]

ALL UNITS ARE US/1  
M4 = Monitoring Well  
F0B = Second field dup

MM = Monitoring Well  
FDB = Second field duplicate analysis

FOB = Second field duplicate analysis

**RADIAN** = Radian Corporation, Sacramento  
**OES** = Canon Environmental Services  
**SAC** = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LB = Compound detected in LB  
LOQ = Limit of quantitation

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-41S	M4-41S	M4-41S	M4-44S	M4-44S	M4-51	M4-51	M4-51	M4-51	M4-52
Date Sampled			11/18/86	01/26/88	07/13/88	09/17/86	01/12/87	11/22/86	10/15/87	04/08/88	04/08/88	11/24/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/01/86	02/16/88	07/26/88	09/24/86	01/21/87	12/09/86	10/28/87	04/14/88	07/26/88	12/10/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB									
Lab Analysis												
Benzchlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Leptoceros	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Microbenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Peracetylphenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroethoxyphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benaldine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl propyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(g,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canole Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

NE = Not established



[illegible]

**ALL UNITS ARE 1/1**

MM - Monitoring Wall

**FDB = Second field duplicate analysis**

**the amount of time**

**RADIAN = Radian Corporation, Sacramento**

**OES = Canole Environmental Services**

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DIS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-52	M4-53	M4-53	M4-53	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54
Data Sampled			10/16/87	04/07/88	11/21/86	10/21/87	07/05/88	11/20/86	04/27/87	04/27/87	10/19/87	04/06/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed			10/30/87	04/14/88	12/09/86	11/10/87	07/21/88	12/10/86	05/06/87	11/10/87	11/10/87	04/15/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis									FDA	FDA	FDA	
Lab Analysis									FDA	FDA	FDA	
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	7.7	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heachlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodimethylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodi-n-propylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylthiophenyl) phthalate	NE	NE	NO	NO	4.4(8.25)	NO	NO	1.38	NO	NO	NO	NO
Bis(2-ethylthiophenyl) phthalate	NE	NE	NO	NO	2.6(8.25)	NO	NO	4.6(8.25)	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(k)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Crysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(100)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heachlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in laboratory blank - not edited  
 LOQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Level	Primary	NCL	M4-52	M4-53	M4-54	M4-55	M4-56	M4-57	M4-58	M4-59	M4-60	M4-61	M4-62	M4-63	M4-64	M4-65
Date Sampled					10/16/87	04/07/88	11/21/86	10/21/87	07/05/88	11/20/86	04/27/87	10/19/87	04/27/87	10/19/87	04/06/88			
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN			
Date Analyzed					10/30/87	04/14/88	12/09/86	11/10/87	07/21/88	12/10/86	05/06/87	11/10/87	05/14/87	11/10/87	04/15/88			
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC			
Field Analysis																		
Lab Analysis																		
Benzochlorocyclopentadiene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophthalene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pentachlorophenol	30	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodiphenylamine	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl) ether	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(g,h,i)perylene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylisophthalene	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,5-Trichlorophenol	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NE = Nothing detected  
NA = Not analyzed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	IHS Action Level	U.S. EPA		WELL NUMBER									
		Primary MCL	M4-52	M4-53	M4-53	M4-53	M4-54	M4-54	M4-54	M4-54	M4-54	M4-54	
Date Sampled													
Sampled By													
Date Analyzed													
Lab													
Field Analysis													
Lab Analysis													
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibromofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NO	NO	N	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing Detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	IHS Action Level	U.S. EPA Priority	WELL NUMBER									
			M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-57	M4-57	M4-57
Date Sampled			11/22/86	11/22/86	04/20/87	10/14/87	10/14/87	07/11/88	07/11/88	11/19/86	04/28/87	10/12/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/09/86	12/09/86	05/01/87	10/30/87	11/09/87	07/25/88	07/25/88	12/05/86	05/12/87	10/23/87
Lab			SAC	SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB	FDL	LDA		FDL	FDL		FDL	
Lab Analysis												
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	750	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethylbenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy) methane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDL = First field duplicate analysis

FDL = Second field duplicate analysis

LDN = First laboratory duplicate analysis

LDN = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Ceramie Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-57	M4-57
Date Sampled			11/22/86	11/22/86	04/20/87	10/14/87	10/14/87	07/11/88	07/11/88	07/11/88	11/19/86	04/28/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/09/86	12/09/86	05/01/87	10/30/87	11/09/87	07/23/88	07/25/88	07/25/88	12/05/86	05/12/87
Lab			SAC	SAC	SAC	SAC	CES	CES	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB	FDA	FDA		FDA	FDA	FDA		
Lab Analysis												
Isophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	1.8	4.5	NO	NO	NO	NO	NO	NO	2.2	NO
M-nitrosodiphenylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(g,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylnaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Caronde Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	MCL	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-55	M4-57	M4-57	M4-57
Date Sampled					11/22/86	11/22/86	04/20/87	10/14/87	10/14/87	07/11/88	07/11/88	07/11/88	11/19/86	10/12/87
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					12/09/86	12/09/86	05/01/87	10/30/87	10/30/87	07/23/88	07/25/88	07/25/88	12/05/86	05/12/87
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDA	FDA	FDA	FDA	FDA		
Lab Analysis					LDA	LDB	LDA							
2,4,5-Trichlorophenol	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)Fluoranthene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

MJ = Monitoring Well  
FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
CDS = Cerrito Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	M4-58	M4-58	M4-58	M4-58	M4-58	M4-59	M4-59	M4-60	M4-61	M4-61
Decs Sampled			11/21/86	10/13/87	04/06/88	04/06/88	07/07/88	11/18/86	04/21/87	10/09/87	01/13/87	02/01/86
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Decs Analyzed			12/09/86	10/28/87	04/15/88	04/18/88	07/26/88	12/01/86	05/01/87	10/20/87	01/20/87	12/17/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis				LDA	LDB				FOA		LDB	LDA
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloroethylbenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE	4.8(8.25)	NO	NO	NO	NO	9	5(8.25)	NO	5.3(8.25)	3.9(8.25)
Acetylbenzyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	3.1(8.25)
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	27
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibutyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibutyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LD)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)benzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well  
FOA = First field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
B = Compound detected in laboratory blank - not edited  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-58	M4-58	M4-58	M4-59	M4-59	M4-60	M4-61	M4-61		
Date Sampled			11/21/86	10/12/87	04/06/88	07/07/88	11/18/86	04/21/87	10/09/87	01/13/87	02/01/86	12/01/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/09/86	10/28/87	04/15/88	07/26/88	12/01/86	05/01/87	10/20/87	01/20/87	12/17/86	12/17/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis				LDA	LDB		FDA				LDB	LDA
Benzothioxyloperadlans	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophenols	NE	NE	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	1.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrooxydiphenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylisophthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 605 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	ML	M4-58	M4-58	M4-58	M4-58	M4-58	M4-59	M4-59	M4-60	M4-61	M4-61
Date Sampled					11/21/86	10/13/87	04/06/88	04/06/88	07/07/88	11/18/86	04/21/87	01/13/87	02/01/86	12/01/86
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					12/09/86	10/28/87	04/15/88	04/18/88	07/26/88	12/01/86	05/01/87	01/20/87	12/17/86	12/17/86
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis						LDA	LDB				FDA		LDB	LDA
2,4,5-Trichlorophenol	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-61	M4-62	M4-63	M4-64	M4-65	M4-66	M4-67	M4-68	M4-69		
Date Sampled			01/29/87	01/19/88	07/20/88	04/26/88	04/26/88	11/25/86	11/25/86	07/15/88	10/17/86	11/25/86	01/23/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/24/87	02/02/88	08/11/88	05/02/88	05/02/88	12/11/86	10/28/86	07/25/88	10/28/86	12/12/86	02/09/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(k)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDN = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radon Corporation, Sacramento

SAC = Radon Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DBS	U.S. EPA	Action	Primary	ML	M4-61	M4-61	M4-61	M4-62	M4-62	M4-63	M4-63	M4-67	M4-69	M4-69
Data Sampled															
Supplied By															
Data Analyzed															
Lab															
Field Analysis															
Lab Analysis															
Benzhexocyclopentadiene	NE	NE													
Isophthalic	NE	NE													
Naphthalene	NE	NE													
Nitrobenzene	NE	NE													
Phenanthrene	NE	NE													
Dibenz(a,h)anthracene	NE	NE													
Indeno(1,2,3-cd)pyrene	NE	NE													
Pyrene	NE	NE													
2,4,6-Trichlorophenol	NE	NE													
2-Chlorophenol	NE	NE													
2,4-Dichlorophenol	NE	NE													
2,4-Dimethylphenol	400	NE													
2-Nitrophenol	NE	NE													
4-Nitrophenol	NE	NE													
2,4-Dinitrophenol	NE	NE													
Pentachlorophenol	NE	NE													
Phenol	NE	NE													
4-Nitroanisole	NE	NE													
Benzo(a)pyrene	NE	NE													
4-Bromophenyl phenyl ether	NE	NE													
Bis(2-chloroisopropyl) ether	NE	NE													
Benz(g,h,i)perylene	NE	NE													
Fluorene	NE	NE													
4-Chloro-3-methylphenol	NE	NE													
4,6-Dinitro-2-methylphenol	NE	NE													
Aniline	NE	NE													
Benzyl alcohol	NE	NE													
2-Methylphenol	NE	NE													
4-Methylphenol	NE	NE													
Benzoic acid	NE	NE													
4-Chloroaniline	NE	NE													

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FTA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 RADIANT = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 NE = Nothing detected  
 NA = Not analyzed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 605 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	M4-61	M4-61	M4-62	M4-62	M4-63	M4-63	M4-67	M4-69	M4-69
Date Sampled			01/29/87	01/19/88	07/20/88	04/26/88	04/26/88	11/25/86	10/17/86	11/25/86	01/23/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/24/87	02/02/88	08/11/88	05/02/88	05/02/88	12/11/86	10/28/86	12/12/86	02/09/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis											
Lab Analysis											
2-Methylphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FDA = First field duplicate analysis  
FTB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-69	M4-70	M4-70	M4-70	M4-70	M4-71	M4-72	M4-72	M4-72	M4-74
Date Sampled			07/13/88	01/29/87	10/16/87	10/16/87	04/21/88	04/22/88	01/08/88	04/11/88	07/21/88	04/27/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/26/88	02/23/87	10/30/87	10/30/87	04/28/88	04/27/88	01/21/88	04/18/88	08/11/88	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CSS
Field Analysis												
Lab Analysis				LDA	LDB		FDA	FTB				
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroethylaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroethyl-n-propylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(o)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(o)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)phenyl ether	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 CSS = Central Environmental Services  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in laboratory blank - not edited  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA	Primary	M4-69	M4-70	M4-70	M4-70	M4-70	M4-71	M4-72	M4-72	M4-72	M4-74
	Ation	Level	MCL										
Date Sampled				07/13/88	01/29/87	10/16/87	10/16/87	10/16/87	04/21/88	01/08/88	04/11/88	07/21/88	04/27/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				07/26/88	02/23/87	10/30/87	10/30/87	04/27/88	04/27/88	01/21/88	04/18/88	08/11/88	
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CES
Field Analysis									FTA				
Lab Analysis					LDA	LDB							
1-naphthene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-naphthene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-trimethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4-tetramethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,5-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,8-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,9-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,10-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,11-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,12-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,13-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,14-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,15-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,16-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,17-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,18-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,19-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,20-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,21-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,22-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,23-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,24-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,25-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,26-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,27-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,28-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,29-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,30-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,31-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,32-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,33-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,34-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,35-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,36-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,37-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,38-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,39-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,40-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,41-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,42-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,43-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,44-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,45-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,46-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,47-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,48-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,49-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,50-pentamethyl-naphthalene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FTA = First field duplicate analysis  
LDB = Second field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
RADIAN = Radian Corporation, Sacramento  
CES = Caronde Environmental Services  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1966 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-69	M4-70	M4-70	M4-70	M4-70	M4-71	M4-72	M4-72	M4-72	M4-74
Date Sampled			07/13/88	01/29/87	10/16/87	10/16/87	04/21/88	04/22/88	01/08/88	04/11/88	07/21/88	04/27/88
Date Analyzed			07/26/88	02/23/87	10/30/87	10/30/87	04/28/88	04/27/88	01/21/88	04/18/88	08/11/88	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CES
Field Analysis												
Lab Analysis					LDA	LDB	FVA	FVB				
2,4,5-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)Fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDN = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Carmie Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA Action Level	WELL NUMBER									
			M4-74	M4-75	M4-76	M4-76	M4-76	M4-88	M4-88	M4-89	M4-90	M4-90
Date Sampled			04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/04/88	04/29/88	05/06/88	05/06/88	05/06/88	01/14/87	01/14/87	01/14/87	02/18/87	04/18/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA									FDA
Lab Analysis										LDA		LDB
1,3-Dichlorobenzene		130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2-Dichlorobenzene		130	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,4-Dichlorobenzene		NE	750	NE	NE	NE	NE	NE	NE	NE	NE	NE
Aroclor 1248		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1,2,4-Trichlorobenzene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Heachlorobenzene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Heachlorobenzene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Is(2-chloroethyl) ether		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chloronaphthalene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
3,3'-Dichlorobenzidine		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dinitrotoluene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,6-Dinitrotoluene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Fluoranthene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Chlorophenyl phenylether		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Nitrobenzylamine		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Nitrobenzylamine		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bis(2-ethylhexyl)phthalate		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bis(2-ethylhexyl)phthalate		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Di-n-butyl phthalate		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Di-n-octyl phthalate		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Diethyl phthalate		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dimethyl phthalate		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzo(a)anthracene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzo(a)pyrene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzo(k)fluoranthene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Chrysene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Acenaphthylene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Anthracene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bis(2-chloroethoxy)methane		(LOQ)0.7	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Heachlorobenzene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Heachlorocyclopentadiene		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 FDB = First laboratory duplicate analysis  
 LDA = Second laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 CES = Caronde Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	Date Sampled Sampled By	Date Analyzed	Lab	Field Analysis	Lab Analysis	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
								M4-74	M4-74	M4-75	M4-76	M4-76	M4-76	M4-88	M4-88	M4-89	M4-90
	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88	04/27/88
	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88	05/04/88
	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA	FTA
Isophthalene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Naphthalene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Nitrobenzene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Parathion	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Dibenz(a,h)anthracene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Iridene(1,2,3-cd)pyrene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Pyrene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4,6-Trichlorophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Chlorophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dichlorophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dimethylphenol	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
2-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Nitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2,4-Dinitrophenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Peracetic acid	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Phenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
N-nitrosodiphenylamine	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzidine	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Bromophenyl phenylether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Bis(2-chloroisopropyl)ether	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benz(a,h,i)perylene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Fluorene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Chloro-3-methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Aniline	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzyl alcohol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Methylphenol	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Benzoic acid	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
4-Chloroaniline	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2-Methylnaphthalene	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTA = First field duplicate analysis

FTB = Second field duplicate analysis

FTA = First laboratory duplicate analysis

FTB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canine Environmental Services

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 605 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-74	M4-75	M4-76	M4-76	M4-76	M4-88	M4-88	M4-89	M4-90	M4-90
Date Sampled			04/27/88	04/27/88	04/27/88	04/28/88	04/28/88	01/06/87	01/06/87	01/06/87	01/20/87	04/11/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/04/88	04/29/88	05/06/88	05/06/88	01/14/87	01/14/87	01/14/87	01/14/87	02/18/87	04/18/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB								FDA
Lab Analysis										LDA	LDB	
2,4,5-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Cessante Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

[illegible]

ALL UNITS ARE UP/1

7/8 - Monitoring Well

**FDA = First field duplicate analysis**

TPB = Second field duplicate analysis

DA = First laboratory duplicate analysis

LB = Second Laboratory duplicate analysis

**RADIAN = Radian Corporation, Sacramento**

SAC = Radian Analytical Services, Sacramento  
 DIVISION = National Corporation, Sacramento

B = Compound detected

LOQ = Limit of quantitation

NE = Not established

ND = Nothing detected

NA = Not analyzed

B = Compound deter

LOQ = Limit of quantitation

NE = Not established

[illegible]

ALL UNITS ARE U.S./L

TTN 87207144 - M

FDA = First field duplicate analysis

**FDB = Second field duplicate analysis**

ILDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

**RADIAN = Radian Corporation, Sacramento**

**SSAC = Radian Analytical Services, Sacramento**

**— FARMERS' FRIENDLY —**

.....

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Priority MLL	WELL NUMBER							
			M4-90	M4-90	M4-91	M4-91	M4-91	M4-92	M4-92	M4-100
Date Sampled			04/11/88	01/20/87	01/20/87	01/20/87	01/21/88	01/21/88	01/21/88	09/16/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/19/88	02/18/87	02/18/87	02/18/87	02/05/88	02/05/88	08/11/88	09/22/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	
Lab Analysis			LDA	LDB						
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Primary MCL	M4-101	M4-101	M4-102	M4-102	M4-103	M4-103	M4-104	M4-105	M4-105	M4-106	M4-107
Date Sampled			09/16/86	08/05/87	09/18/86	08/07/87	09/18/86	08/04/87	12/02/86	12/04/86	12/04/86	09/18/86	09/19/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			09/22/86	08/12/87	09/29/86	08/17/87	09/29/86	08/11/87	12/17/86	12/16/86	12/16/86	09/29/86	10/01/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										FDA	FDB		
Lab Analysis													
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	750	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heachlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heachloroethane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodimethylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodi-n-propylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(k)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl)amine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heachlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heachlorocyclohexadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Isophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NE = Nothing detected

B = Compound detected in Laboratory blank - not edited

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DF: Action Level	U.S. EPA Primary MCL	M4-101	M4-101	M4-102	M4-102	M4-103	M4-104	M4-105	M4-105	M4-106	M4-107
Date Sampled			09/16/86	08/05/87	09/18/86	08/07/87	09/18/86	12/02/86	12/04/86	12/04/86	09/18/86	09/19/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			09/22/86	08/12/87	09/29/86	08/17/87	09/29/86	12/17/86	12/16/86	12/16/86	09/29/86	10/01/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Naphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perchlorophenol	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrosodiphenylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Benzophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(o,g,h,l)xylylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylmethylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER		M4-101		M4-102		M4-103		M4-104		M4-105		M4-106		M4-107	
	Action	Primary	Level	MCL														
Date Sampled					09/16/86		09/18/86	08/07/87	09/18/86	08/04/87	12/02/86	12/04/86	12/04/86	12/16/86	09/18/86	09/19/86		
Sampled By					RADIAN		RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed					09/22/86		09/29/86	08/17/87	09/29/86	08/11/87	12/17/86	12/16/86	12/16/86	12/16/86	09/29/86	10/01/86		
Lab					SAC		SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC		
Field Analysis																		
Lab Analysis																		
Dibenzofuran	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)fluoranthene	NE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METIC 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-108	M4-109	M4-109	M4-110	M4-111	M4-111	M4-111	M4-111	M4-112	M4-113
	Level	MCL										
Date Sampled			09/19/86	11/06/86	04/18/88	09/19/86	09/22/86	09/22/86	07/12/88	09/22/86		11/06/86
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT		RADIANT
Date Analyzed			09/30/86	11/19/86	04/21/88	10/01/86	10/01/86	10/01/86	07/27/88	10/01/86		11/18/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC		SAC
Field Analysis												
Lab Analysis												
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	750	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrotoluene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodimethylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
N-nitrosodi-n-propylamine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Butylbenzyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Leptophene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIANT = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-108	M4-109	M4-109	M4-109	M4-109	M4-110	M4-111	M4-111	M4-111	M4-112
				09/19/86 RADIAN SAC	11/06/86 RADIAN SAC	04/18/88 RADIAN SAC	04/21/88 RADIAN SAC	04/18/88 RADIAN SAC	09/19/86 RADIAN SAC	09/22/86 RADIAN SAC	07/12/88 RADIAN SAC	01/15/88 RADIAN SAC	09/22/86 RADIAN SAC
				09/30/86 SAC	11/18/86 SAC	04/21/88 SAC	04/21/88 SAC	04/18/88 SAC	10/01/86 SAC	10/01/86 SAC	07/27/88 SAC	01/28/88 SAC	10/01/86 SAC
						LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
Naphthalene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Para-chlorophenol	30	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitroanisole/phenyl ether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Phenyl phenyl ether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzog(h,i)pyrene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Glucos-3-methylphenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylanthracene	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Act/In Level	Primacy MCL	M4-108	M4-109	M4-109	M4-109	M4-110	M4-111	M4-111	M4-111	M4-112	M4-113
Date Sampled			09/19/86	11/06/86	04/18/88	09/19/86	09/22/86	01/15/88	07/12/88	09/22/86	11/06/86	
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Lab			09/30/86	11/18/86	04/21/88	10/01/86	10/01/86	01/28/88	07/27/88	10/01/86	11/18/86	
Field Analysis			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Lab Analysis					LDA	LDB	LDB	LDB				
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
ALL UNITS ARE ug/l												
M4 - Monitoring Well												
LDA = First laboratory duplicate analysis												
LDB = Second laboratory duplicate analysis												
RADIAN = Radian Corporation, Sacramento												
SAC = Radian Analytical Services, Sacramento												
NE = Not established												
NO = Nothing detected												

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Primary MCL	DATE SAMPLED	MA-113	MA-114	MA-114	MA-114	MA-115	MA-116	MA-116	MA-116	MA-116	MA-117
Sampled By													
Date Analyzed													
Lab													
Field Analysis													
Lab Analysis													
1,3-Dichlorobenzene	130	NE	04/26/88	RADIAN	11/26/86	01/07/88	01/07/88	07/12/88	09/26/86	09/26/86	09/26/86	01/13/88	07/06/88
1,2-Dichlorobenzene	150	NE	05/02/88	RADIAN	12/18/86	01/19/88	01/21/88	07/27/88	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
1,4-Dichlorobenzene	750	NE		SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Aroclor 1248	NE	NE											
1,2,4-Trichlorobenzene	NE	NE											
Benzochlorobenzene	NE	NE											
Benzochlorobenzene	NE	NE											
Bis(2-chloroethyl) ether	NE	NE											
2-Chlorophthalate	NE	NE											
3,3'-Dichlorobenzidine	NE	NE											
2,4-Dinitrochlorobenzene	NE	NE											
2,6-Dinitrochlorobenzene	NE	NE											
Fluoranthene	NE	NE											
4-Chlorophenyl phenylether	NE	NE											
N-nitrosodimethylamine	NE	NE											
N-nitrosodi-n-propylamine	NE	NE											
Bis(2-ethylhexyl)phthalate	NE	NE											
Bis(2-ethylhexyl)phthalate	NE	NE											
Di-n-butyl phthalate	NE	NE											
Di-n-octyl phthalate	NE	NE											
Diethyl phthalate	NE	NE											
Dimethyl phthalate	NE	NE											
Benzo(a)anthracene	NE	NE											
Benzo(k)fluoranthene	NE	NE											
Chrysene	NE	NE											
Acenaphthylene	NE	NE											
Anthracene	(LOQ)0.7 NE	NE											
Bis(2-chloroethoxy)methane	NE	NE											
Benzochlorobenzene	NE	NE											

ALL UNITS ARE ug/l

MA = Monitoring Well

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

ALL UNITS ARE ug/l

PM = Monitoring Well  
FDA = First field duplicate analysis  
LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis

RAOLAN = Radlan Corporation, Sacramento  
SAC = Radlan Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
B = Compound detected in laboratory blank - not edited  
NE = Not established

WW = Monitoring Well  
FDA = First field duplicate analysis  
LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis

ND = Nothing detected  
NA = Not analyzed  
B = Compound detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHAD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER										
	Action Level	Primary MCL	M4-113	M4-114	M4-114	M4-114	M4-114	M4-115	M4-116	M4-116	M4-116	M4-117	
Date Sampled			04/26/88	11/26/86	01/07/88	01/07/88	07/12/88	12/02/86	09/26/86	09/26/86	01/13/88	07/06/88	10/20/86
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
ALL UNITS ARE ug/l													
M4 = Monitoring Well													
FDA = First field duplicate analysis													
LDA = First laboratory duplicate analysis													
LDB = Second laboratory duplicate analysis													

NO = Nothing detected  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NE = Not established

[illegible]

ALL UNITS ARE 1/1

11th September - PM

FDA - Food and Drug Administration

FFDB = Second field duplicate analysis

UDA = Parent laboratory duplicate analysis

LTB = Second Laboratory duplicate analysis

**RADIAN = Radian Corporation. Sacramento.**

DES = Canyon Environmental Services

— **Radlan Analytical Services, Sacramento**

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 105–112

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

LLOQ = Limit of quantitation

( ) = Data decision cr



MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DBS Action Level	U.S. EPA Primary MCL	M4-117	M4-118	M4-119	WELL NUMBER		M4-120	M4-120	M4-120	M4-120	M4-121
Date Sampled			10/20/86	10/21/86	10/20/86	10/13/86	10/13/86	01/23/88	07/11/88	07/11/88	07/11/88	10/13/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/29/86	10/29/86	10/29/86	10/21/86	10/21/86	02/09/88	07/25/88	07/25/88	07/25/88	10/21/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis			LDA	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB	LDB
Benzo(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(e)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	30	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitrochlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrochlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2,4,6-trichlorophenyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTICS (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER									
	CES	Primary Action Level	M4-117	M4-117	M4-118	M4-119	M4-120	M4-120	M4-120	M4-120	M4-120	M4-121
Data Sampled			10/20/86	10/20/86	10/21/86	10/20/86	10/13/86	10/13/86	01/23/88	07/11/88	07/11/88	10/13/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Data Analyzed			10/29/86	10/29/86	11/03/86	10/29/86	10/21/86	10/21/86	02/09/88	07/25/88	07/25/88	10/21/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis			LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA	LDA
2-Methylanthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Mitronoline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Mitronoline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Mitronoline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = First field duplicate analysis

LDA = Second field duplicate analysis

FTB = First laboratory duplicate analysis

LDA = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Cerritos Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	IES Action Level	U.S. EPA Priority MCL	M4-122	M4-123	M4-124	M4-127	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128
Date Sampled			11/12/86	10/21/86	11/24/86	10/24/86	11/13/86	01/16/87	10/23/87	04/16/87	01/13/88	04/12/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/20/86	11/03/86	12/10/86	10/29/86	11/25/86	02/18/87	11/16/87	04/30/87	01/26/88	04/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis							LDA	LDB				
1,3-Dichlorobenzene	130	NE	NO	NO	NO	NO	NO	NO	3.1	NO	2.4	3.3
1,2-Dichlorobenzene	130	NE	NO	NO	NO	NO	2	5	2.6	NO	NO	2.3
1,4-Dichlorobenzene	NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1-Methylnaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1-Methylnaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	18	5(8.25)	12	NO	NO	NO	NO	6.78(14.14)	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(o)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(o)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(a)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(LOQ)0.7	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorocyclopentadiene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LN = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

B = Compound detected in Laboratory blank - not edited

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DOS Action Level	U.S. EPA Primary MCL	M4-122	M4-123	M4-124	M4-127	WELL NUMBER		M4-128	M4-128	M4-128	M4-128	M4-128
Date Sampled			11/12/86	10/21/86	11/24/86	10/24/86	11/13/86	11/13/86	01/16/87	04/16/87	10/23/87	01/13/88	04/12/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/20/86	11/03/86	12/10/86	10/29/86	11/25/86	11/25/86	02/18/87	04/30/87	11/16/87	01/26/88	04/21/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis													
Lab Analysis													
							LDA	LDB					
Leptoborne	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Penta-chlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitro-2-chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Bromophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benz(g,h,i)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acetone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylnaphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

IDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established

Parameter	U.S. EPA Action Level	Primary MO.	WELL NUMBER									
			M4-123	M4-124	M4-127	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128	M4-128
Date Sampled			11/12/86	11/24/86	10/24/86	11/13/86	11/13/86	01/16/87	04/16/87	10/23/87	01/13/88	04/12/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/20/86	12/10/86	10/29/86	11/25/86	02/18/87	04/30/87	01/26/88	01/26/88	04/21/88	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis												
Lab Analysis												
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)Fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

[illegible]

ALL UNITS ARE 12/1

7/83 and 8/83 - New

FDA = First field duplicate analysis

FDB = First field duplicate analysis  
FDB = Second field duplicate analysis

WDA = First laboratory duplicate analysis

LB = Second laboratory duplicate analysis

**RADIAN** = Radian Corporation, Sacramento

**OES = Canonic Environmental Services**

= Radian Analytical Services, Sacramento

— **NUMBER OF PAGES**

ND = Nothing detected

NA = Not analyzed

Limit of quantitation = 1000

NE = Not established

[illegible]

ALL UNITS ARE 10/1

**ITEM Description - Monitoring Well**

**FFDA = First field duplicate analysis**

FFDB = Second field duplicate analysis

LDA = First Laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

**RADIAN = Radian Corporation, Sacramento**

**CES = Canonic Environmental Services**

**SAC** = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHID 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DSS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-128	M4-128	M4-128	M4-129	M4-129	M4-129	M4-129	M4-129	M4-130	M4-130
Date Sampled			07/12/86	07/12/86	07/12/86	07/12/86	07/12/86	07/12/86	07/12/86	07/12/86	07/12/86	07/12/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			07/21/86	07/21/86	07/21/86	07/21/86	07/21/86	07/21/86	07/21/86	07/21/86	07/21/86	07/21/86
Lab			CES	CES	CES	CES	CES	CES	CES	CES	CES	CES
Field Analysis												
Lab Analysis												
2,4,5-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Mitronmiline	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Mitronmiline	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Mitronmiline	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

CEC - First field duplicate analysis

CEC - Second field duplicate analysis

CEC - First laboratory duplicate analysis

CEC - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canine Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established



[illegible]

U.S. DEPT. OF JUSTICE

FDB = First laboratory duplicate analysis  
 SDB = Second laboratory duplicate analysis  
 LDB = First laboratory duplicate analysis  
 UDB = Second laboratory duplicate analysis  
 Analytical data for M4-137, M4-140 and M4-141

Account	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404</
---------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	--------

Analytical data for Mt-137, Mt-140 and Mt-141 appear under Et-137, Et-140 and Et-141.

[illegible]

**ALL UNITS ARE 18/1**

ALL NEW STUN T  
M - Monday (M)

FDA = First field duplicate analysis

FLA = First fluoride analysis  
FIB = Second fluoride analysis

FLD = First Laboratory duplicate analysis  
 SLD = Second Laboratory duplicate analysis

1.  $1.0 \times 10^6$  = First laboratory duplicate analysis  
2.  $1.0 \times 10^6$  = Second laboratory duplicate analysis

ANTHONY - Bad Lion Corporation Sacramento

GULAN ■ National Corporation, Sacramento  
 SAC ■ Badlan Analytical Services, Sacramento

ND = Nothing detected

ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHID 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-130	M4-131	M4-131	M4-131	M4-131	M4-131	M4-132	M4-132	M4-132	M4-132
Date Sampled				10/27/87	10/27/87	11/19/86	11/19/86	11/19/86	11/19/86	10/14/87	10/14/87	11/24/86	07/29/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				11/17/87	11/17/87	12/04/86	12/05/86	12/05/86	12/05/86	10/30/87	10/30/87	12/10/86	08/10/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis													
2,4,5-Trichlorophenol	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Mitronitroline	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Mitronitroline	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Mitronitroline	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)Fluoranthene	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-132	M4-132	M4-132	M4-136	M4-143	M4-1000	M4-1001	M4-1002	M4-1003	M4-1004
Date Sampled			01/22/88	04/20/88	07/18/88	07/14/88	07/21/88	10/02/86	10/15/86	09/25/86	10/15/86	09/29/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/09/88	04/26/88	08/10/88	07/25/88	08/11/88	10/14/86	10/27/86	10/10/86	10/27/86	10/09/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												FTA
Lab Analysis												
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	750	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlorocyclopentadiene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Glucoxyphenyl phenylether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	NE	NE	ND	ND	ND	ND	ND	3.1(8.25)	5.28(8.25)	4.1(8.25)	6.28(8.25)	ND
Bis(2-ethylhexyl)phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	11	7.18(8.25)	13	198	ND
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibutyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	(LOD)0.7	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FTA = First field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
B = Compound detected in Laboratory blank - not edited  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

ALL UNITS ARE ug/l

PM = Monitoring Well

PDA = First field duplicate analysis

RADIAN = Radion Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in laboratory blank - not edited

NE = Not established

[illegible]

**ALL DATES ARE w/1**

**ITEM SUBMITTED - NA**

### FDA - First field duplicate analysis

**RADIAN = Radian Corporation, Sacramento**

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

Parameter	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	U.S. EPA Action Level	Primary ML	WELL NUMBER										
				M4-1004	M4-1004	M4-1005	M4-1005	M4-1005	M4-1009	M4-1009	M4-1009	M4-1009	M4-1009	
1,3-Dichlorobenzene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
1,2-Dichlorobenzene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
1,1,4-Dichlorobenzene	09/29/86 RADIAN	NE	750	01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Acenaphthene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
1,2,4-Trichlorobenzene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Benzochlorobenzene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Bis(2-chloroethyl) ether	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
2-Chloroethylbenzene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
3,3'-Dichlorobenzidine	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
2,4-Dinitrotoluene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
2,6-Dinitrotoluene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Fluoranthene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
4-Chlorophenyl phenyl ether	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
4-nitrochlorobenzylamine	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
4-nitrochlorobenzylamine	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Bis(2-ethylphenyl) picthalene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Di-n-butyl picthalene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Di-n-octyl picthalene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Diethyl picthalene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Benzo(a)anthracene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Benzo(a)pyrene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Benzo(k)fluoranthene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Chrysene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Acenaphthylene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Anthracene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Bis(2-chloroethoxy)methane	09/29/86 RADIAN	NE	10000.7	01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN
Benzochlorobenzene	09/29/86 RADIAN	NE		01/20/88 RADIAN	07/22/88 RADIAN	09/25/86 RADIAN	09/25/86 RADIAN	04/16/87 RADIAN	10/09/86 RADIAN	10/09/86 RADIAN	01/18/88 RADIAN	01/18/88 RADIAN	01/28/88 RADIAN	07/26/88 RADIAN

MW = Monitoring Well  
 FPA = First field duplicate analysis  
 FFB = Second field duplicate analysis  
 LPA = First Laboratory duplicate analysis  
 LFB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
CB = Compound detected  
LOQ = Limit of quantitation  
( ) = Data decision criteria  
NE = Not established





## MASTER LOG OF WELLS SAMPLED FOR METHUEN 625 ANALYTES (SEPTEMBER 1966 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER		M4-1004		M4-1005		M4-1009		M4-1009		M4-1009		M4-1009	
	Action	Level	Primary	MCL	M4-1004	M4-1004	M4-1005	M4-1005	M4-1009	M4-1009	M4-1009	M4-1009	M4-1009	M4-1009	M4-1009	M4-1009
Date Sampled					09/29/86	01/20/88	07/22/88	09/25/86	09/25/86	09/25/86	04/16/87	10/09/86	10/09/86	10/09/86	01/18/88	07/26/88
Date Analyzed					10/09/86	02/02/88	08/10/88	10/09/86	10/09/86	10/09/86	05/01/87	10/21/86	10/21/86	10/21/86	01/28/88	08/11/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FTB			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis																
2-Methylanthracene	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FTB - First field duplicate analysis

FTB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

[illegible]

# Introduction

— **Requirements:** a minimum of 10 years' experience in the field of research and development, and

LOQ = Limit of quantitation

NE = Not established

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEKED 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA	Action	Priority	Well Number	M4-1010	M4-1011	M4-1012	M4-1012	M4-1012	M4-1013	M4-1014	M4-1015	M4-1016	M4-1017	M4-1018
			Level	MO												
Date Sampled						10/23/86	12/01/86	09/24/86	07/27/87	12/01/86	04/20/87	12/03/86	12/05/86	12/01/86	09/23/86	09/23/86
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed						11/03/86	12/12/86	10/07/86	07/31/87	12/12/86	05/01/87	12/15/86	12/18/86	12/12/86	10/07/86	10/06/86
Lab						SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis											FDA					
Lab Analysis																
Isophenone	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methylalene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrobenzene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenanthrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenz(a,h)anthracene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Indeno(1,2,3-cd)pyrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Pyrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,6-Trichlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dimethylphenol	400	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitrophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Perchlorophenol	30	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Phenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitro-2-chlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dichlorophenyl ether	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(g,h,i)pyrene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chloro-3-methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,6-Dinitro-2-methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aniline	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzyl alcohol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzoic acid	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Methylphenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4,5-Trichlorophenol	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 B = Compound detected in Laboratory blank - not edited  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHUEN 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER										
			M4-1010	M4-1011	M4-1012	M4-1012	M4-1013	M4-1014	M4-1015	M4-1016	M4-1017	M4-1018	
Date Sampled			10/23/86	12/01/86	09/24/86	07/27/87	12/01/86	04/20/87	12/03/86	12/05/86	12/01/86	09/23/86	09/23/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/03/86	12/12/86	10/07/86	07/31/87	12/12/86	05/01/87	12/15/86	12/18/86	12/12/86	10/07/86	10/06/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis								FDA					
Lab Analysis													
3-Mitronalline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Mitronalline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FA - First field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

[illegible]

**ALL UNITS ARE U/L**

1149 Aufzucht - 194

UDA = First Laboratory duplicate analysis

**Reference Number:**

**RADIAN** = Radian Corporation, Sacramento

QES = Canonte Environmental Services

RadLan Analytical Services, Sacramento

ND = Nothing detected

B = Compound detected in laboratory blank - not edited

LOQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA Action Level	WELL NUMBER												
		Primary MCL	M4-1018	M4-1019	M4-1020	M4-1021	M4-1022	M4-1022	M4-1022	M4-1023	M4-1024	M4-1025	M4-1026	
Date Sampled			10/08/87	09/24/86	12/01/86	11/07/86	11/07/86	10/20/87	10/20/87	11/04/86	11/04/86	11/03/86	11/05/86	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			10/20/87	10/07/86	12/12/86	11/19/86	11/19/86	11/10/87	11/24/87	11/18/86	11/18/86	11/18/86	11/18/86	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	
Field Analysis														
Lab Analysis													LDA	
Isophenols	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Metaphenols	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Nitrobenzenes	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Phenanthrenes	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Phenol	NE	NE	NO	NO	2.3	NO	NO	NO	NO	NO	NO	NO	NO	
4-Nitroanisole	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzenes	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Bromophenyl phenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bis(2-chloroisopropyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bis(4-chlorophenyl) ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Phenols	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Anilines	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzyl alcohol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzoic acid	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Chloroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Methylphenyl ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

ALL UNITS ARE ug/l  
 NE = Nothing detected  
 NO = Not established  
 RADIAN = Radian Corporation, Sacramento  
 CES = Carbone Environmental Services  
 SAC = Radian Analytical Services, Sacramento

MASTER LOG OF WELLS SAMPLED FOR METEORIC 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-1018	M4-1019	M4-1020	M4-1021	M4-1022	M4-1022	M4-1023	M4-1024	M4-1025	M4-1026
Date Sampled			10/08/87	09/24/86	12/01/86	11/07/86	11/07/86	10/20/87	11/04/86	11/04/86	11/03/86	11/05/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/20/87	10/07/86	12/12/86	11/19/86	11/19/86	11/10/87	11/18/86	11/18/86	11/18/86	11/18/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis								CES				
Lab Analysis												LDA
3-Microsulfone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Microsulfone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 LDA = First Laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 CES = Carlin Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NE = Not established

## MASTER LOG OF WELLS APPLIED FOR PERMIT 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	M4-1026	M4-1027	M4-1028	M4-1028	M4-1029	M4-1029	M4-1029	M4-1030	M4-1031	M4-1032
	Level	MCL										
Date Sampled			11/05/86	11/25/86	10/14/87	10/14/87	11/11/86	01/18/88	01/19/88	11/11/86	11/18/86	11/19/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/19/86	12/09/86	10/30/87	1/09/87	11/19/86	02/02/88	02/04/88	11/19/86	12/01/86	12/05/86
Lab			SAC	SAC	SAC	S	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDB				
Lab Analysis			LDB					LDA	LDB			
1,3-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	130	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	750	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzylamine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibutyl phthalate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	(100)0.7	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy) methane	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzochlorobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Central Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

LQ = Limit of quantitation

( ) = Data decision criterion (DDC). Indicates result below DDC.

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA Action Level	WELL NUMBER									
			M4-1026	M4-1027	M4-1028	M4-1028	M4-1029	M4-1029	M4-1029	M4-1030	M4-1031	M4-1032
Date Sampled			11/05/86	11/25/86	10/14/87	10/14/87	11/11/86	01/18/88	01/19/88	11/11/86	11/18/86	11/19/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/19/86	12/09/86	10/30/87	11/09/87	11/19/86	02/02/88	02/04/88	11/19/86	12/01/86	12/05/86
Lab			SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FDA				
Lab Analysis			LDB					LDA	LDB			
Isophorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
400	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitro-2-chlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl) ether	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl alcohol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzoic acid	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylimphthalene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 CES = Central Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHED 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-1026	M4-1027	M4-1028	M4-1028	M4-1029	M4-1029	M4-1029	M4-1030	M4-1031	M4-1032
Date Sampled			11/05/86	11/25/86	10/14/87	10/14/87	11/11/86	01/18/88	01/19/88	11/11/86	11/18/86	11/19/86
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LUB				FTA	FTB	LDA	LDB		
2,4,5-Trichlorophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTA = First Field duplicate analysis

FTB = Second Field duplicate analysis

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canine Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	DSS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
				M4-1033	M4-1034	M4-1035	M4-1036	M4-1037	M4-1038	M4-1038	M4-1038	M4-1039	M4-1039
				11/12/86 RADIAN SAC	11/12/86 RADIAN SAC	11/25/86 RADIAN SAC	11/19/86 RADIAN SAC	10/31/86 RADIAN SAC	08/12/87 RADIAN SAC	08/04/87 RADIAN SAC	04/18/88 RADIAN SAC	11/20/86 RADIAN SAC	08/03/87 RADIAN SAC
1,3-Dichlorobenzene		130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene		130	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene		NE	750	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aroclor 1248		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) ether		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chlorophthalate		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrochlorobenzene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrochlorobenzene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluorene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Glucochlorobenzyl phenyl ether		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrochlorobenzylamine		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-nitrochlorobenzylamine		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) phthalate		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl) phthalate		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene		(LOQ) 0.7 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethoxy)methane		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bischlorobenzene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bischlorocyclopentadiene		NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
B = Compound detected in laboratory blank - not edited  
LOQ = Limit of quantitation  
( ) = Data decision criterion (DDC). Indicates result below DDC.  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1033	M4-1034	M4-1035	M4-1036	M4-1037	M4-1038	M4-1038	M4-1039	M4-1039	
Date Sampled			11/12/86	11/12/86	11/25/86	11/19/86	10/31/86	08/12/87	08/04/87	11/20/86	08/03/87	
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed			11/20/86	11/20/86	12/09/86	12/05/86	11/07/86	08/27/87	08/12/87	12/02/86	08/11/87	
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis												
Lab Analysis												
Leptobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Naphthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Nitrobenzene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Phenanthrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Pyrene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Chlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4-Dichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4-Dimethylphenol	400	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Nitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4-Dinitrophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Pentachlorophenol	30	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Phenol	NE	NE	NO	NO	NO	NO	NO	NO	4,3	NO	NO	
p-nitroresorcinol/amine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzidine	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Bromophenyl phenylether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benz(a,h,i)perylene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Fluorene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Aniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzyl alcohol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Methylphenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Benzoic acid	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
4-Chloroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Methylisophthalene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEHED 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DBS Action Level	U.S. EPA Priority ML	WELL NUMBER												
			M4-1033	M4-1034	M4-1035	M4-1036	M4-1037	M4-1038	M4-1038	M4-1038	M4-1039	M4-1039			
Date Sampled			11/12/86	11/12/86	11/25/86	11/19/86	10/31/86	08/12/87	11/20/86	08/04/87	04/19/88	11/20/86	08/03/87		
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed			11/20/86	11/20/86	12/09/86	12/05/86	11/07/86	08/27/87	12/02/86	08/12/87	04/21/88	12/02/86	08/11/87		
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC		
Field Analysis															
Lab Analysis															
Dibenzofuran	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
4-Nitroanisole	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NE = Not established

[illegible]

**ITPA T013-000007 P0000 TPO - 60**

— **NATIONAL ANALYTICAL SERVICES, INC.**

( ) = Data decision criteria

( ) = Data decision criterion (DDC). Indicates result below

( ) = Data decision criterion (DDC). Indicates result below DDC.

[illegible]

IDA = First laboratory duplicate analysis  
IIB = Second laboratory duplicate analysis  
OM = Off base residential well

RRAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
B = Compound detected  
NE = Not established

ND = Nothing detected  
B = Compound detected in laboratory blank - not edited

## MASTER LOG OF WELLS SAMPLED FOR METHUEN 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			M4-1040	M4-1041	M4-1042	M4-1043	CH-136	CH-142	CH-334	CH-335	CH-340	CH-340	CH-358
Date Sampled			11/17/86	11/14/86	11/21/86	11/21/86	10/17/86	10/30/86	07/09/86	07/23/86		07/08/86	10/14/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/25/86	11/24/86	12/09/86	12/09/86	10/27/86	11/18/86	07/30/86	07/29/86	07/30/86	07/30/86	10/24/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	RAS	SAC
Field Analysis													
Lab Analysis											LDB	LDA	
2-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylaniline	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LDB - Second Laboratory duplicate analysis

CH - Off base residential well

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA	Action	Primary	OH-544	OH-544	OH-810	OH-810	OH-829	OH-829	OH-906	OH-906	OH-910	OH-924
	Level	ML												
Date Sampled					10/28/86	10/28/86	10/13/86	10/13/86	10/27/86	10/27/86	10/30/86	10/30/86	10/29/86	10/28/86
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					11/03/86	10/24/86	10/24/86	10/24/86	11/03/86	11/13/86	11/18/86	11/18/86	11/06/86	11/03/86
Lab					SAC	SAC	SAC	SAC	SAC	ELI	SAC	SAC	SAC	SAC
Field Analysis						FDA	FDB	FDB			LDA			
Lab Analysis							LDA	LDB						
1,3-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2-Dichlorobenzene	130	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,4-Dichlorobenzene	NE	750			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl)ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Chloronaphthalene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,4-Dinitrotoluene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2,6-Dinitrotoluene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Fluoranthene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitrophenyl phenyl ether	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-ethylhexyl)phthalate	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-butyl phthalate	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Di-n-octyl phthalate	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Diethyl phthalate	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dimethyl phthalate	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)anthracene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(a)pyrene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(k)fluoranthene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Chrysene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Acenaphthylene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Anthracene	(100)0.7	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bis(2-chloroethyl)amine	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzochlorobenzene	NE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OH = Off base residual well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.

NO = Nothing detected  
 B = Compound detected in laboratory blank - not edited  
 LQ = Limit of quantitation  
 ( ) = Data decision criterion (DDC). Indicates result below DDC.  
 NE = Not established

[illegible]

**ALL UNITS ARE US/1**

FDA = First field duplicate analysis

**FTB - Second field duplicate analysis**

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

**NO - Off base residential well**

**RADIAN = Radian Corporation, Sacramento**

SAC = Radian Analytical Services, Sacramento

**ELI** = Eureka Laboratories, Inc.

ND = Nothing detected

B = Compound detected in laboratory blank - not edited

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DHS Action Level	U.S. EPA Primary MCL	OH-544	OH-544	OH-810	OH-810	OH-829	OH-829	OH-906	OH-906	OH-910	OH-924
Date Sampled			10/28/86	10/28/86	10/13/86	10/13/86	10/27/86	10/27/86	10/30/86	10/30/86	10/29/86	10/28/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/03/86	11/13/86	10/24/86	10/24/86	11/03/86	11/13/86	11/18/86	11/18/86	11/06/86	11/03/86
Lab			SAC	ELI	SAC	SAC	SAC	ELI	SAC	SAC	SAC	SAC
Field Analysis					FDA	FDB						
Lab Analysis					LDA	LDB			LDA	LDB		
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dibenzofuran	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4-Nitroaniline	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Benzo(b)fluoranthene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 OH = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Bureks Laboratories, Inc.

ND = Nothing detected  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER		
				04-924	04-1238	04-1238
Date Sampled				10/28/86	10/28/86	10/29/86
Sampled By				RADIAN	RADIAN	RADIAN
Date Analyzed				11/13/86	11/13/86	11/06/86
Lab				ELI	ELI	SAC
Field Analysis				LDA	LDB	
Lab Analysis						
1,3-Dichlorobenzene	130	NE	NE	NO	NO	NO
1,2-Dichlorobenzene	130	NE	NE	NO	NO	NO
1,4-Dichlorobenzene	NE	750	NE	NO	NO	NO
Aroclor 1248	NE	NE	NE	NO	NO	NO
1,2,4-Trichlorobenzene	NE	NE	NE	NO	NO	NO
Benzochlorobenzene	NE	NE	NE	NO	NO	NO
Benzochlorobenzene	NE	NE	NE	NO	NO	NO
Bis(2-chloroethyl) ether	NE	NE	NE	NO	NO	NO
2-Chlorophthalate	NE	NE	NE	NO	NO	NO
3,3'-Dichlorobenzidine	NE	NE	NE	NO	NO	NO
2,4-Dinitrochlorobenzene	NE	NE	NE	NO	NO	NO
2,6-Dinitrochlorobenzene	NE	NE	NE	NO	NO	NO
Fluorene	NE	NE	NE	NO	NO	NO
4-Chlorophenyl phenyl ether	NE	NE	NE	NO	NO	NO
4-Nitrochlorobenzene	NE	NE	NE	NO	NO	NO
4-Nitrochlorobenzene	NE	NE	NE	NO	NO	NO
4-Nitrochlorobenzene	NE	NE	NE	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NE	NO	NO	NO
Bis(2-ethylhexyl) phthalate	NE	NE	NE	NO	NO	NO
Di-n-butyl phthalate	NE	NE	NE	NO	NO	NO
Di-n-octyl phthalate	NE	NE	NE	NO	NO	NO
Diethyl phthalate	NE	NE	NE	NO	NO	NO
Dimethyl phthalate	NE	NE	NE	NO	NO	NO
Benz(a)anthracene	NE	NE	NE	NO	NO	NO
Benz(a)pyrene	NE	NE	NE	NO	NO	NO
Benz(b)fluoranthene	NE	NE	NE	NO	NO	NO
Chrysene	NE	NE	NE	NO	NO	NO
Acenaphthylene	NE	NE	NE	NO	NO	NO
Anthracene	(100)0.7	NE	NE	NO	NO	NO
Bis(2-chloroethoxy)methane	NE	NE	NE	NO	NO	NO
Benzochlorobenzene	NE	NE	NE	NO	NO	NO
Benzochlorobenzene	NE	NE	NE	NO	NO	NO
Isophthalate	NE	NE	NE	NO	NO	NO
Naphthalene	NE	NE	NE	NO	NO	NO

ALL UNITS ARE ug/l

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

04 = Off base residential well

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ELI = Eureka Laboratories, Inc.

NO = Nothing detected

100 = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER			
	Action Level	Primary MCL	CM-924	CM-924	CM-1238	
Date Sampled			10/28/86	10/28/86	10/29/86	
Sampled By			RADIAN	RADIAN	RADIAN	
Date Analyzed			11/13/86	11/13/86	11/06/86	
Lab			ELI	ELI	SAC	
Field Analysis						
Lab Analysis			LDA	LDB		
Nitrobenzene	NE	NE	NO	NO	NO	
Phenanthrene	NE	NE	NO	NO	NO	
Dibenz(a,h)anthracene	NE	NE	NO	NO	NO	
Indeno(1,2,3-cd)pyrene	NE	NE	NO	NO	NO	
Pyrene	NE	NE	NO	NO	NO	
2,4,6-Trichlorophenol	NE	NE	NO	NO	NO	
2-Chlorophenol	NE	NE	NO	NO	NO	
2,4-Dichlorophenol	NE	NE	NO	NO	NO	
2,4-Dimethylphenol	400	NE	NO	NO	NO	
2-Nitrophenol	NE	NE	NO	NO	NO	
4-Nitrophenol	NE	NE	NO	NO	NO	
2,4-Dinitrophenol	NE	NE	NO	NO	NO	
Pentachlorophenol	30	NE	NO	NO	NO	
Phenol	NE	NE	NO	NO	NO	
N-nitrosodiphenylamine	NE	NE	NO	NO	NO	
Benzidine	NE	NE	NO	NO	NO	
4-Bromophenyl phenylether	NE	NE	NO	NO	NO	
Bis(2-chloroisopropyl)ether	NE	NE	NO	NO	NO	
Benzo(g,h,i)perylene	NE	NE	NO	NO	NO	
Fluorene	NE	NE	NO	NO	NO	
4-Chloro-3-methylphenol	NE	NE	NO	NO	NO	
4,6-Dinitro-2-methylphenol	NE	NE	NO	NO	NO	
Aniline	NE	NE	NO	NO	NO	
Benzyl alcohol	NE	NE	NO	NO	NO	
2-Methylphenol	NE	NE	NO	NO	NO	
4-Methylphenol	NE	NE	NO	NO	NO	
Benzoic acid	NE	NE	NO	NO	NO	
4-Chloroaniline	NE	NE	NO	NO	NO	
2-Methylisophthalene	NE	NE	NO	NO	NO	
2,4,5-Trichlorophenol	NE	NE	NO	NO	NO	
2-Nitroaniline	NE	NE	NO	NO	NO	
1,4-Dichlorobenzene	NE	NE	NO	NO	NO	
Dibenzofuran	NE	NE	NO	NO	NO	

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

CM = Off base residential well

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ELI = Borek Laboratories, Inc.

NO = Nothing detected

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 625 ANALYTES (SEPTEMBER 1986 - PRESENT)

Parameter	U.S. EPA		WELL NUMBER	
	Action Level	Primary MCL	CM-924	CM-1238
Date Sampled			10/28/86	10/29/86
Sampled By			RADIAN	RADIAN
Date Analyzed			11/13/86	11/06/86
Lab			ELI	SAC
Field Analysis				
Lab Analysis			LDA	LDB
4-Nitroaniline	NE	NE	NO	NO
Benz(a)fluoranthene	NE	NE	NO	NO

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ELI = Eureka Laboratories, Inc.

ND = Nothing detected  
NE = Not established

RESULTS FOR METHOD 6010

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK



## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	IES Action Level	U.S. EPA Primary MCL	BM-1	BM-2	BM-8	BM-10	BM-10	BM-11	BM-12	BM-13	BM-13	BM-13	BM-17
Date Sampled			02/05/82	02/05/82	02/05/82	12/02/85	04/08/86	02/05/82	02/05/82	12/02/85	03/26/86	02/05/82	
Sampled By			ES	ES	ES	RADIAN	RADIAN	ES	ES	RADIAN	RADIAN	ES	
Date Analyzed						12/06/85	04/10/86			12/06/85	04/08/86		
Lab			ES	ES	ES	AUS	AUS	ES	ES	AUS	AUS	ES	
Field Analysis													
Lab Analysis													
Antimony	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	ND
Arsenic	NE	NE	ND	ND	ND	NA	0.007	ND	ND	ND	ND	ND	ND
Barium	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND	ND
Beryllium	NE	NE	ND	ND	ND	NA	0.004	ND	ND	ND	ND	ND	ND
Cadmium	NE	NE	ND	ND	ND	0.010	0.023	ND	ND	ND	0.003	ND	ND
Chromium	NE	NE	0.055	ND	ND	NA	NA	ND	ND	ND	0.014	ND	ND
Copper	NE	NE	ND	ND	ND	NA	0.005	ND	ND	ND	NA	ND	ND
Lead	NE	NE	ND	ND	ND	ND	ND	0.001	ND	ND	0.009	ND	ND
Mercury	NE	NE	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Nickel	NE	NE	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	ND
Selenium	NE	NE	ND	ND	ND	ND	0.025	ND	ND	ND	0.011	ND	ND
Silver	NE	NE	ND	ND	ND	ND	NA	ND	ND	ND	NA	ND	ND
Sulfur	NE	NE	ND	ND	ND	NA	NA	0.0970	ND	ND	NA	ND	ND
Thallium	NE	NE	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	ND
Zinc	NE	NE	ND	ND	ND	NA	NA	ND	ND	ND	NA	ND	ND
Fluorine	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	18	19	NA	NA	17	16	NA	NA
Chloride	NE	NE	NA	NA	NA	24	18	NA	NA	21	18	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	12	13	NA	NA	11	11	NA	NA
Sodium	NE	NE	NA	NA	NA	17	17	NA	NA	15	13	NA	NA
Sulfate	NE	NE	NA	NA	NA	18	8	NA	NA	8	5	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berilium	NE	NE	1.0	NA	NA	0.059	0.077	NA	NA	0.055	0.055	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	110	100	NA	NA	94	96	NA	NA
Nitrate	NE	45	NA	NA	NA	1.2	1.2	NA	NA	0.53	0.50	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	210	190	NA	NA	190	150	NA	NA

ALL UNITS ARE mg/l  
BW = Base production well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
AUS = Radian Analytical Services, Austin

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		DATE		DATE		DATE		DATE		DATE		DATE	
	Action	Priority	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18	BA-18
Date Sampled	NE	NE	02/05/82	12/02/85	12/02/85	04/08/86	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82
Sampled By	NE	NE	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed	NE	NE	12/06/85	12/06/85	12/06/85	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86	04/10/86
Lab	NE	NE	AUS	AUS	AUS	AUS	AUS	AUS	AUS	AUS	AUS	AUS	AUS	AUS	AUS	AUS
Field Analysis	NE	NE	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Lab Analysis	NE	NE	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Acetone	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Acetic	NE	NE	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Barium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Beryllium	NE	NE	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Cadmium	NE	NE	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Chromium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Copper	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Lead	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Mercury	NE	NE	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Nickel	NE	NE	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Selenium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Silver	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Thallium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Zinc	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Fluoride	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Calcium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Chloride	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Carbonate	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Iron	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Aluminum	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Barium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Potassium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Sodium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Sulfate	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Vanadium	NE	NE	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

ALL UNITS ARE mg/l  
 BA = Extraction Well  
 FNA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 LDA = First Laboratory duplicate analysis  
 BM = Base production well  
 Analytical data for BA-63 and BA-69 appear under M4-63 and M4-69

RAULAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 AUS = Radian Analytical Services, Austin  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		WELL NUMBER		WELL NUMBER		WELL NUMBER		WELL NUMBER	
	DF5	U.S. EPA	Action	Primary	ML	EA-18	EA-18	EA-18	EA-29	EA-29	EA-29	EA-73
Date Sampled						02/05/82	12/02/85	04/08/86	02/05/82	12/02/85	03/27/86	04/06/88
Sampled By						ES	RADIANT	RADIANT	ES	RADIANT	RADIANT	RADIANT
Date Analyzed						12/06/85	12/06/85	04/10/86	12/06/85	12/06/85	04/08/86	04/06/88
Lab						ES	AUS	AUS	ES	AUS	AUS	SAC
Field Analysis						FDA	FDA	FDA	FDA	FDA	FDA	LDA
Lab Analysis												
Total Alkalinity	NE	NE	NE	NE	NE	NA	100	100	NA	110	100	NA
Nitrate	NE	45	NE	NE	NE	NA	0.70	NA	NA	0.66	0.68	NA
Total Dissolved Solids	NE	NE	NE	NE	NE	NA	80	NA	NA	1.90	210	NA

ALL UNITS ARE mg/l

EA = Extraction Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

EW = Base production well

RADIANT = Radiant Corporation, Sacramento

AUS = Radiant Analytical Services, Austin

SAC = Radiant Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			BM-73	BM-83	BM-83	BM-84	BM-84	BM-85	BM-86	BM-86	BM-87	BM-87
Date Sampled			04/06/88	10/24/87	04/06/88	10/24/87	04/06/88	10/24/87	04/06/88	10/24/87	04/06/88	10/24/87
Date Analyzed			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDB								LDA	LDB
Lab Analysis												
Antimony	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsonic	NE	0.050	ND	0.004	0.005	0.004	0.004	ND	0.004	ND	0.004	0.004
Beryllium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	NE	0.050	ND	0.01	0.012	ND	ND	0.011	0.01	0.013	0.02	0.02
Copper	NE	NE	0.025	ND	0.014	ND	0.006	0.009	ND	0.031	ND	ND
Lead	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	NE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	NE	NE	0.020	ND	ND	0.04	0.025	ND	ND	ND	ND	ND
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007
Thallium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	NE	NE	0.087	0.06	0.076	0.11	0.083	0.06	0.09	0.070	0.07	0.07
Fluorine	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfur	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
 BM = Extraction Well  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METEORIC 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			BA-137	BA-140	BA-141	MA-4	MA-6	MA-6	MA-7	MA-7	MA-7	MA-7
Date Sampled			04/07/88	10/14/88	10/14/88	04/28/82	10/02/84	03/30/82	10/01/84	03/17/82	03/29/82	09/21/84
Sampled By			RADIAN	RADIAN	RADIAN	ES	RADIAN	ES	RADIAN	ES	ES	RADIAN
Date Analyzed			10/28/88	10/28/88	10/28/88	ES	ES	ES	ES	ES	ES	ES
Lab			SAC	SAC	SAC	ES	RAS	ES	RAS	ES	ES	RAS
Field Analysis												
Lab Analysis												
Remarks	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALL UNITS ARE mg/l												
NA = Monitoring Well												
BA = Extraction Well												
RADIAN = Radian Corporation, Sacramento RAS = Radian Analytical Services SAC = Radian Analytical Services, Sacramento												
NA = Not analyzed NE = Not established												

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYSES

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-8	M4-9	M4-9	M4-10	M4-10	M4-10	M4-10	M4-11	M4-11	M4-11
	Level	MCL										
Date Sampled			03/31/82	03/31/82	04/28/82	05/30/84	03/30/82	09/18/84	10/26/87	07/22/88	03/30/82	09/19/84
Sampled By			ES	ES	ES	RAS	ES	RAS	RAS	RAS	ES	RAS
Date Analyzed												
Lab			ES	ES	ES	RAS	ES	RAS	RAS	RAS	ES	RAS
Field Analysis												
Lab Analysis												
Antimony	NE	NE	0.0060	ND	ND	NA	0.0070	NA	ND	ND	ND	NA
Arsenic	NE	NE	0.050	ND	ND	0.005	ND	0.002	ND	ND	ND	0.005
Barium	NE	NE	ND	ND	ND	NA	ND	NA	ND	ND	ND	NA
Beryllium	NE	NE	0.010	ND	ND	ND	0.012	ND	ND	ND	ND	ND
Cadmium	NE	NE	0.050	0.9200	ND	0.026	0.1200	ND	ND	ND	0.0700	ND
Chromium	NE	NE	ND	ND	ND	0.068	ND	ND	ND	ND	ND	ND
Copper	NE	NE	0.050	0.9800	ND	0.1200	0.0300	ND	0.008	ND	ND	ND
Lead	NE	NE	0.002	0.6	ND	ND	0.001	ND	ND	ND	0.0930	ND
Mercury	NE	NE	0.002	0.6	ND	ND	ND	ND	ND	0.11	0.0021	ND
Nickel	NE	NE	0.050	0.0270	ND	ND	ND	ND	0.13	ND	0.0500	ND
Selenium	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	0.0490	ND
Silver	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfur	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	ND	0.1500	ND	NA	0.0730	ND	ND	0.082	0.0360	0.26
Zinc	NE	NE	0.9600	ND	ND	NA	NA	NA	NA	NA	NA	NA
Fluorine	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	6.4	NA	0.35	NA	NA	NA	0.43
Boronate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	20	NA	67	NA	NA	NA	130
Sodium	NE	NE	NA	NA	NA	23	NA	33	NA	NA	NA	52
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	1.0	NA	NA	0.49	NA	0.31	NA	NA	NA	0.68
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
M4 - Monitoring Well

RADIANT = Radiant Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radiant Analytical Services  
SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-8	M4-9	M4-9	M4-9	M4-10	M4-10	M4-10	M4-10	M4-11	M4-11
Date Sampled			03/31/82	03/31/82	04/28/82	09/30/84	03/30/82	09/18/84	10/26/87	07/22/88	03/30/82	09/19/84
Sampled By			ES	ES	ES	RADIAN	ES	RADIAN	RADIAN	RADIAN	ES	RADIAN
Date Analyzed												10/27/87
Lab			ES	ES	ES	RAS	ES	RAS	SAC	SAC	ES	RAS
Field Analysis												
Lab Analysis												SAC
Nitrate	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

NA = Monitoring Well

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DTS Ac-Lon Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-11	M4-12	M4-12	M4-12	M4-12	M4-12	M4-13	M4-14	M4-14	M4-14
Date Sampled			07/25/88	04/29/88	09/20/84	10/23/87	04/07/88	07/26/88	03/30/82	09/20/84	10/26/87	
Sampled By			RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN	RADIAN	
Date Analyzed												
Lab			SAC	ES	RAS	SAC	SAC	SAC	ES	RAS	SAC	
Field Analysis												
Lab Analysis								LDA				
Antimony	NE	NE	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND
Asenic	NE	0.050	ND	ND	0.0053	0.005	0.004	ND	ND	0.0083	0.004	ND
Baryllium	NE	NE	ND	ND	NA	0.002	ND	ND	ND	NA	ND	ND
Cadmium	NE	0.010	ND	ND	ND	ND	ND	ND	0.0100	ND	ND	ND
Chromium	NE	0.050	ND	ND	ND	0.08	0.01	0.021	ND	ND	ND	ND
Copper	NE	NE	0.012	ND	ND	0.09	0.01	ND	ND	ND	ND	0.01
Lead	NE	0.050	ND	ND	0.012	0.06	ND	ND	0.0570	0.014	ND	ND
Mercury	NE	0.002	ND	ND	NA	0.10	ND	ND	0.0011	ND	ND	ND
Nickel	NE	NE	ND	ND	NA	ND	ND	ND	0.0500	NA	ND	ND
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND
Zinc	NE	NE	0.060	0.0700	0.014	1.3	0.02	0.004	0.0200	0.012	0.48	ND
Fluorine	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	0.34	NA	NA	NA	NA	1.5	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	12	NA	NA	NA	NA	58	NA	NA
Sodium	NE	NE	NA	NA	20	NA	NA	NA	NA	35	NA	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	1.0	NA	NA	0.061	NA	NA	NA	NA	0.37	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
 M4 = Monitoring Well  
 LDA = First Laboratory duplicate analysis  
 LTB = Second Laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METEED 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	Well Number	MA-11	MA-12	MA-12	MA-12	MA-12	MA-12	MA-12	MA-12	MA-13	MA-14	MA-14	MA-14
Date Sampled				07/25/88	04/29/82	09/20/84	10/23/87	04/07/88	07/26/88	03/30/82	03/30/82	03/30/82	09/20/84	10/26/87	
Sampled By				RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	ES	ES	ES	RADIAN	RADIAN	
Date Analyzed					ES	RAS	SAC	SAC	SAC	ES	ES	ES	RAS	SAC	
Lab				SAC											
Field Analysis															
Lab Analysis									LDA						
Elutriate	NE	45		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

MA - Monitoring Well

LDA - First Laboratory duplicate analysis

LTB - Second Laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

RAS - Radian Analytical Services

SAC - Radian Analytical Services, Sacramento

NA - Not analyzed

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES		U.S. EPA		M4-14		M4-15		M4-16D		M4-17D		M4-17S	
	Action	Level	Primary	MCL	M4-14	M4-15	M4-15	M4-15	M4-16D	M4-16S	M4-17D	M4-17S	M4-17S	M4-17S
Date Sampled					07/22/88	07/22/88	04/29/82	09/18/84	06/16/82	06/16/82	06/16/82	09/26/84	06/16/82	
Sampled By					RADIAN	RADIAN	ES	RAS	ES	ES	ES	RAS	ES	
Date Analyzed														
Lab					SAC	SAC	ES	RAS	ES	ES	ES	RAS	ES	
Field Analysis					LDA	LDB								
Lab Analysis														
Antimony	NE	NE	NE	0.050	ND	ND	0.0060	NA	ND	0.0080	ND	NA	0.0110	
Asenic	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	0.0029	ND	
Beryllium	NE	NE	NE	0.010	ND	ND	0.0120	NA	ND	ND	ND	NA	ND	
Cadmium	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	ND	ND	
Chromium	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	ND	ND	
Copper	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	ND	ND	
Lead	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	0.012	ND	
Mercury	NE	NE	NE	0.002	ND	ND	ND	NA	ND	0.0027	0.9	ND	0.0012	
Nickel	NE	NE	NE	0.010	ND	ND	0.0700	NA	ND	ND	ND	NA	ND	
Selenium	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	ND	ND	
Silver	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	ND	ND	
Thallium	NE	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	NA	ND	
Zinc	NE	NE	NE	0.005	ND	ND	0.074	NA	ND	ND	ND	0.007	ND	
Fluorine	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chloride	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	NE	NE	NE	NA	NA	NA	1.4	NA	NA	NA	NA	0.24	NA	
Bicarbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	NE	NE	NE	NA	NA	NA	69	NA	NA	NA	NA	9.3	NA	
Sodium	NE	NE	NE	NA	NA	NA	34	NA	NA	NA	NA	22	NA	
Sulfate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aluminum	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Berilium	NE	NE	NE	1.0	NA	NA	0.62	NA	NA	NA	NA	0.073	NA	
Cobalt	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Alkalinity	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Services, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

M4 = Monitoring well  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		DATE		ANALYST		DATE		ANALYST	
	Action	Primary	M4-14	M4-14	M4-15	M4-15	M4-16D	M4-16D	M4-16S	M4-17D	M4-17D	M4-17S
Date Sampled			07/22/88	07/22/88	04/29/82	09/18/84	10/26/87	06/16/82	06/16/82	09/26/84	06/16/82	06/16/82
Sampled By			RADIAN	RADIAN	ES	RADIAN	RADIAN	ES	ES	RADIAN	ES	ES
Date Analyzed												
Lab			SAC	SAC	ES	RAS	SAC	ES	ES	RAS	ES	ES
Field Analysis												
Lab Analysis			LDA	LJB								
Remarks												
Total Dissolved Solids	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LJB - Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	MCL	WELL NUMBER									
						M4-17S	M4-18D	M4-18D	M4-18D	M4-18S	M4-18S	M4-18D	M4-18D	M4-18D	M4-18D
Date Sampled						09/13/84	06/15/82	09/25/84	03/28/86	09/25/86	04/27/88	06/15/82	09/29/84	04/29/82	09/13/84
Sampled By						RAS	ES	RAS	RAS	RAS	RAS	ES	RAS	ES	RAS
Date Analyzed															
Lab															
Field Analysis															
Lab Analysis															
Arsenic	NE	NE	NE	NE	NE	NA	ND	NA	NA	NA	ND	ND	NA	ND	ND
Barium	NE	NE	NE	NE	NE	0.050	ND	0.0048	0.007	0.0045	ND	ND	ND	ND	0.006
Beryllium	NE	NE	NE	NE	NE	NA	ND	NA	NA	NA	ND	ND	NA	ND	ND
Cadmium	NE	NE	NE	NE	NE	0.010	0.0900	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	NE	NE	NE	NE	NE	0.050	ND	ND	0.013	ND	0.012	ND	0.24	ND	0.03
Copper	NE	NE	NE	NE	NE	0.14	ND	0.044	NA	0.028	ND	ND	0.050	ND	ND
Lead	NE	NE	NE	NE	NE	0.050	ND	0.025	0.007	0.022	ND	ND	0.034	ND	ND
Mercury	NE	NE	NE	NE	NE	0.002	0.0014	ND	ND	ND	ND	0.0016	ND	0.0130	ND
Nickel	NE	NE	NE	NE	NE	NA	ND	NA	NA	NA	ND	ND	NA	ND	ND
Selenium	NE	NE	NE	NE	NE	0.010	ND	ND	0.008	ND	ND	ND	0.007	ND	ND
Silver	NE	NE	NE	NE	NE	0.050	ND	NA	NA	NA	ND	ND	NA	ND	ND
Thallium	NE	NE	NE	NE	NE	NA	ND	NA	NA	NA	ND	ND	NA	ND	ND
Zinc	NE	NE	NE	NE	NE	0.16	ND	0.015	NA	0.009	ND	ND	0.059	0.1300	0.07
Fluorene	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	NE	NE	NA	NA	NA	16	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NE	NE	NE	NA	NA	NA	15	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NE	NE	10	NA	0.65	NA	0.42	NA	NA	8.9	NA	NA
Bromochloro	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	NE	54	NA	18	10	13	NA	NA	25	11	NA
Sodium	NE	NE	NE	NE	NE	71	NA	33	19	33	NA	NA	29	NA	NA
Sulfate	NE	NE	NE	NE	NE	NA	NA	NA	11	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berium	NE	NE	NE	NE	NE	0.26	NA	0.082	0.14	0.076	NA	NA	0.38	NA	NA
Cobalt	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

ES = Engineering Science, Inc.

AUS = Radiant Analytical Services, Austin

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

Parameter	DHS Action Level	U.S. EPA Priority ML	WELL NUMBER											
			M4-17S	M4-18D	M4-18D	M4-18D	M4-18D	M4-18D	M4-18S	M4-18S	M4-19D	M4-19D	M4-19D	
Date Sampled	NE	NE	09/13/84	06/15/82	09/25/84	03/28/86	09/25/86	04/27/88	06/15/82	09/29/84	04/29/82	09/13/84	10/26/87	
Sampled By			RAOJAN	ES	RAOJAN	RAOJAN	RAOJAN	RAOJAN	ES	RAOJAN	ES	RAOJAN	RAOJAN	
Date Analyzed						04/08/86								
Lab			RMS	ES	RMS	ALS	RMS	SAC	ES	RMS	ES	RMS	SAC	
Field Analysis					FTB									
Lab Analysis							FTA							
Total Alkalinity	NE	NE	NA	NA	NA	96	NA	NA	NA	NA	NA	NA	NA	
Microtox	NE	45	NA	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids	NE	NE	NA	NA	NA	200	NA	NA	NA	NA	NA	NA	NA	

**ALL UNITS ARE OUT**

71491 - Monitoring Well  
71492 - Monitoring Well  
71493 - Monitoring Well

FDA = First field duplicate analysis  
FDB = Second field duplicate analysis

**RADIAN = Radian Component Lam, Sacramento**

AUS = Radian Analytical Services, Austin

RAS = RadLan Analytical Services

**SAC** = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA Action Level	Primary MCL	WELL NUMBER					
				M4-19S	M4-19S	M4-20D	M4-20S	M4-21D	M4-21D
Date Sampled				04/28/82	09/14/84	03/13/86	04/28/82	09/19/84	01/29/87
Sampled by				ES	RAS	RADIAN	ES	RADIAN	RADIAN
Date Analyzed				03/31/86					
Lab				ES	RAS	SAC	ES	RAS	RAS
Field Analysis									
Lab Analysis									
Antimony	NE	NE	NE	0.0600	NA	NA	0.0260	NA	NA
Arsenic	NE	NE	NE	0.050	0.002	ND	0.2400	ND	ND
Barium	NE	NE	NE	ND	NA	ND	ND	ND	ND
Beryllium	NE	NE	NE	0.4500	ND	ND	0.0200	ND	0.019
Cadmium	NE	NE	NE	0.050	0.017	ND	ND	ND	0.029
Chromium	NE	NE	NE	1.1800	NA	ND	ND	0.077	0.024
Copper	NE	NE	NE	0.050	0.003	ND	ND	ND	ND
Lead	NE	NE	NE	0.002	0.0016	ND	ND	ND	ND
Mercury	NE	NE	NE	1.3300	NA	ND	ND	ND	ND
Nickel	NE	NE	NE	0.010	0.3550	ND	0.0740	ND	ND
Selenium	NE	NE	NE	0.050	ND	ND	ND	ND	0.015
Silver	NE	NE	NE	ND	0.006	ND	ND	ND	NA
Thallium	NE	NE	NE	1.7500	NA	ND	ND	0.078	0.011
Zinc	NE	NE	NE	NA	NA	ND	ND	NA	NA
Fluoride	NE	NE	NE	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	NA	23	NA	NA	NA	NA
Chloride	NE	NE	NE	NA	28	NA	NA	NA	NA
Carbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NA	2.0	NA	NA	6.1	0.14
Bicarbonate	NE	NE	NE	NA	NA	NA	NA	NA	0.17
Magnesium	NE	NE	NE	NA	19	NA	NA	NA	NA
Sodium	NE	NE	NE	NA	31	NA	NA	39	13
Sulfate	NE	NE	NE	NA	26	NA	NA	32	13
Aluminum	NE	NE	NE	NA	NA	NA	NA	NA	18
Boron	NE	NE	NE	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NE	NA	0.22	NA	NA	0.36	NA
Cobalt	NE	NE	NE	NA	NA	NA	NA	NA	0.056
Potassium	NE	NE	NE	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

AUS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PLUMED 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-19S	M4-19S	M4-20D	M4-20D	M4-20S	M4-20S	M4-21D	M4-21D	M4-21D	M4-21D
Date Sampled			04/28/82	09/14/84	03/13/86	04/28/82	09/19/84	05/25/82	06/15/82	09/17/84	09/17/84	09/17/84
Sampled By			ES	RADIAN	RADIAN	ES	RADIAN	ES	ES	RADIAN	RADIAN	RADIAN
Date Analyzed					03/31/86							
Lab			ES	RAS	AUS	ES	RAS	ES	ES	RAS	RAS	RAS
Field Analysis												FEB
Lab Analysis												
Total Alkalinity	NE	NE	NA	NA	120	NA	NA	NA	NA	NA	NA	NA
Nitrate	NE	45	NA	NA	0.13	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	320	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FEB = First field duplicate analysis

FIB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR HEAVY METALS

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21S	M4-21S	M4-21S	M4-21S
Date Sampled					03/19/86	04/13/88	04/13/88	04/13/88	07/18/88	10/18/88	06/24/82	09/17/84	03/19/86	01/25/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN	RADIAN	RADIAN
Date Analyzed					04/08/86					10/31/88			04/08/86	
Lab					AUS	SAC	SAC	SAC	SAC	SAC	ES	RAS	AUS	CES
Field Analysis						FDL	FDL	FDL						
Lab Analysis														
Antimony	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND
Arsenic	NE	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	0.008	ND
Barium	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND
Beryllium	NE	NE	NE	0.010	0.003	ND	ND	ND	ND	ND	ND	0.12	0.002	ND
Cadmium	NE	NE	NE	0.050	0.007	0.012	0.010	0.013	0.012	0.012	ND	0.43	0.020	0.024
Chromium	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	0.35	NA	ND
Copper	NE	NE	NE	0.050	0.019	ND	ND	ND	ND	ND	ND	ND	0.020	ND
Lead	NE	NE	NE	0.002	ND	ND	ND	ND	ND	ND	0.0014	ND	ND	ND
Mercury	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	NA	0.09
Nickel	NE	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	0.004	ND	ND
Selenium	NE	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND
Silver	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND
Thallium	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	0.25	NA	ND
Zinc	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND
Fluoride	NE	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	NA	ND
Calcium	NE	NE	NE	NE	14	NA	NA	NA	NA	1.38	NA	NA	17	ND
Chloride	NE	NE	NE	NE	18	NA	NA	NA	NA	NA	NA	NA	18	ND
Carbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Iron	NE	NE	NE	NE	NA	NA	NA	NA	NA	0.021	NA	4.0	NA	ND
Monobromate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Nitrate	NE	NE	NE	NE	10	NA	NA	NA	NA	108	NA	47	NA	ND
Sulfate	NE	NE	NE	NE	16	NA	NA	NA	NA	16	NA	24	NA	ND
Sulfide	NE	NE	NE	NE	7	NA	NA	NA	NA	NA	NA	NA	7	ND
Aluminum	NE	NE	NE	NE	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Boron	NE	NE	NE	NE	NA	NA	NA	NA	NA	0.03	NA	1.5	NA	NA
Barium	NE	NE	NE	1.0	0.067	NA	NA	NA	NA	0.048	NA	NA	0.075	NA
Cobalt	NE	NE	NE	NE	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Potassium	NE	NE	NE	NE	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Hydrogen	NE	NE	NE	NE	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Silicon	NE	NE	NE	NE	NA	NA	NA	NA	NA	34	NA	NA	NA	NA

ALL UNITS ARE mg/l

NA = Nothing detected

FDL = First field duplicate analysis

FDL = Second field duplicate analysis

FDL = First laboratory duplicate analysis

FDL = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

AUS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

CES = Carnie Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYSES

Parameter	U.S. EPA		WELL NUMBER									
	Action	Primary	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21S	M4-21S
Date Sampled	Level	MCL										
Date Analyzed			03/19/86	04/13/88	04/13/88	04/13/88	07/18/88	10/18/88	06/24/82	09/17/84	03/19/86	01/25/88
Lab			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	ES	RADIANT	RADIANT	RADIANT
Field Analysis			AUS	SAC	SAC	SAC	SAC	SAC	ES	RAS	AUS	CES
Lab Analysis				FDA	FDB	LDA	FDB	LDB				
Verdium	NE	NE	NA	NA	NA	NA	NA	0.028	NA	NA	NA	NA
Total Alkalinity	NE	NE	100	NA	NA	NA	NA	NA	NA	NA	91	NA
Microbe	NE	AS	0.72	NA	NA	NA	NA	NA	NA	NA	2.6	NA
Total Dissolved Solids	NE	NE	100	NA	NA	NA	NA	NA	NA	NA	220	NA

ALL UNITS ARE mg/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIANT - Radiant Corporation, Sacramento

AUS - Radiant Analytical Services, Austin

RAS - Radiant Analytical Services

CES - Granite Environmental Services

SAC - Radiant Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

NE - Not established

MASTER LOG OF WELLS SAMPLED FOR MIXED 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			M4-21S	M4-21S	M4-22D	M4-22D	M4-22D	M4-22D	M4-22D	M4-22D	M4-22S	M4-22S	M4-23D
Date Sampled			04/13/88	07/26/88	04/28/82	09/20/84	09/20/84	01/23/87	07/14/88	10/17/88	06/04/82	09/21/84	04/28/82
Sampled By			RADIAN	RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN	ES
Date Analyzed								02/27/87		10/31/88			
Lab			SAC	SAC	ES	RAS	RAS	SAC	SAC	SAC	ES	RAS	ES
Field Analysis													
Lab Analysis													
Antimony	NE	NE	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	ND
Arsenic	NE	0.050	ND	ND	ND	0.0045	0.0048	ND	ND	ND	ND	0.0067	ND
Beryllium	NE	NE	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	ND
Cadmium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	0.0300	ND	ND
Chromium	NE	0.050	0.009	ND	0.8400	ND	ND	0.020	0.014	0.011	ND	0.097	ND
Copper	NE	NE	ND	ND	ND	ND	ND	0.057	ND	ND	ND	ND	ND
Lead	NE	0.050	ND	ND	ND	0.0067	0.015	ND	ND	ND	ND	0.020	ND
Mercury	NE	0.002	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	0.001
Nickel	NE	NE	0.044	1.7	ND	NA	NA	ND	ND	ND	ND	NA	ND
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	ND
Zinc	NE	NE	0.006	0.018	0.1600	0.005	0.026	0.007	0.003	0.004	ND	0.015	ND
Fluorine	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA	1.38	NA	NA	NA
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	0.34	0.72	NA	NA	0.011	NA	5.2	NA
Monochloro	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	NE	NE	NA	NA	NA	14	15	NA	NA	9.38	NA	18	NA
Sodium	NE	NE	NA	NA	NA	18	20	NA	NA	250	NA	26	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NA	NA	NA	NA	NA	NA	NA	0.019	NA	NA	NA
Berlin	NE	1.0	NA	NA	NA	0.087	0.11	NA	NA	0.047	NA	0.14	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
Hydrogen	NE	NE	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	32	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	0.026	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
M4 - Monitoring Well  
M4S - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento  
ES - Engineering Science, Inc.  
RAS - Radian Analytical Services  
SAC - Radian Analytical Services, Sacramento

ND - Nothing detected  
NA - Not analyzed  
B - Compound detected in laboratory blank - not edited  
NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DBS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-21S	M4-22D	M4-22D	M4-22D	M4-22D	M4-22D	M4-22D	M4-22S	M4-22S	M4-23D
Date Sampled			04/13/88	07/26/88	04/28/82	09/20/84	09/20/84	01/23/87	07/14/88	06/04/82	09/21/84	04/28/82
Sampled By			RADIAN	RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN	ES
Date Analyzed								02/27/87				
Lab			SAC	SAC	ES	RAS	RAS	SAC	SAC	ES	RAS	ES
Field Analysis												
Lab Analysis												
Nitrate	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
 M4 - Monitoring Well  
 FTB - Second field duplicate analysis  
 RADIAN - Radian Corporation, Sacramento  
 RAS - Radian Analytical Services  
 SAC - Radian Analytical Services, Sacramento  
 NA - Not analyzed  
 NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA		WELL NUMBER										
		Primary	MCL	M4-23D	M4-23D	M4-23D	M4-23D	M4-23D	M4-23S	M4-24D	M4-24D	M4-24S		
Date Sampled				09/26/84	03/17/86	03/17/86	04/21/88	04/21/88	04/28/82	09/29/84	04/28/82	09/27/84	03/20/86	04/28/82
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN	ES	RADIAN	RADIAN	ES
Date Analyzed				04/04/86	04/04/86	04/04/86	SAC	CES	ES	RAS	ES	RAS	AUS	ES
Lab				RAS	AUS	AUS	FTB							
Field Analysis														
Lab Analysis														
Antimony	NE	NE	NA	0.0028	0.007	NA	0.006	ND	0.0250	NA	ND	NA	0.005	0.0080
Arsenic	NE	NE	NA	0.050	0.007	NA	0.006	ND	0.3000	ND	ND	NA	0.005	ND
Barium	NE	NE	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	NA	ND
Beryllium	NE	NE	NA	0.010	ND	ND	0.002	ND	ND	ND	ND	ND	ND	ND
Cadmium	NE	NE	NA	0.050	ND	ND	0.031	1.0400	2.2	0.007	ND	0.007	0.007	ND
Chromium	NE	NE	NA	0.050	ND	ND	0.009	0.3300	0.056	ND	0.014	NA	NA	ND
Copper	NE	NE	NA	0.050	0.005	ND	0.005	0.0260	0.030	0.025	0.004	NA	0.004	ND
Lead	NE	NE	NA	0.050	0.005	ND	ND	0.9	0.0005	0.8	0.0005	ND	0.0005	0.0016
Mercury	NE	NE	NA	0.002	ND	ND	ND	0.4100	NA	ND	ND	NA	NA	ND
Nickel	NE	NE	NA	0.010	ND	ND	ND	0.0570	ND	ND	ND	ND	ND	ND
Selenium	NE	NE	NA	0.050	ND	ND	ND	ND	0.006	0.011	0.005	NA	0.005	ND
Silver	NE	NE	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	ND
Thallium	NE	NE	NA	0.035	NA	NA	0.022	ND	0.72	0.036	0.1400	NA	NA	0.0400
Zinc	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.1400	NA	NA	NA
Fluoride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	NA
Calcium	NE	NE	NA	NA	13	12	12	NA	NA	NA	NA	10	NA	NA
Chloride	NE	NE	NA	NA	12	12	12	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	0.60	NA	NA	NA	NA	13	0.94	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	1.2	9.3	8.9	NA	NA	23	14	NA	11	NA	NA
Sodium	NE	NE	NA	16	14	13	NA	NA	26	17	15	5	NA	NA
Sulfate	NE	NE	NA	NA	11	6	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NA	0.074	0.039	0.036	NA	NA	0.52	0.11	0.088	NA	0.088	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

MJ = Monitoring Well

FTB = First field duplicate analysis

FTD = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Sciences, Inc.

AUS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

CES = Canonic Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DPS	U.S. EPA	Action	Primary	ML	Well Number	M4-23D	M4-23D	M4-23D	M4-23S	M4-24D	M4-24D	M4-24S	M4-24S
Date Sampled														
Sampled By														
Date Analyzed														
Lab														
Field Analysis														
Lab Analysis														
Venue	NS	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NS	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Titration	NS	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NS	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

CES = Canale Environmental Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA Action Level	Primary M-24S	M-25D	M-25S	M-26D	M-26S	M-26S	M-26S	M-27D
Date Sampled			09/12/84	06/15/82	09/25/84	06/15/82	09/29/84	04/28/82	04/28/82	04/28/82
Date Analyzed			RADIAN	ES	RADIAN	ES	RADIAN	ES	RADIAN	ES
Lab			RAS	ES	RAS	ES	RAS	ES	RAS	ES
Field Analysis										
Lab Analysis										
WELL NUMBER										
Antimony	NE	NE	NA	NO	NA	NO	NA	0.1500	NA	0.0050
Arsonic	NE	NE	0.050	NO	0.0025	NO	0.002	1.0000	0.003	NO
Barium	NE	NE	NA	NO	NA	NO	NA	NO	NA	NO
Beryllium	NE	NE	0.010	NO	NO	NO	NO	0.1320	NO	0.0230
Cadmium	NE	NE	0.050	0.0600	NO	NO	0.008	0.5100	NO	0.12
Chromium	NE	NE	0.050	NO	NO	NO	0.009	1.0900	0.046	0.1300
Copper	NE	NE	0.050	NO	0.008	NO	0.015	0.0680	0.037	NO
Lead	NE	NE	0.050	NO	NO	NO	0.0005	0.5	0.0005	NO
Mercury	NE	NE	0.002	NO	NA	NO	NA	2.8900	NA	NO
Nickel	NE	NE	0.010	NO	NO	NO	NO	0.2440	NO	NO
Selenium	NE	NE	0.050	NO	NO	NO	0.008	NO	0.007	NO
Silver	NE	NE	0.050	NO	NO	NO	NA	NO	NA	NO
Thallium	NE	NE	NA	NO	NA	NO	NA	NO	NA	NO
Zinc	NE	NE	0.13	0.0240	0.017	0.0320	0.019	5.9000	0.090	0.3200
Fluoride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	3.9	NA	0.39	NA	0.71	NA	4.7	NA
Nitrate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	39	NA	15	NA	11	NA	25	NA
Sodium	NE	NE	32	NA	20	NA	15	NA	31	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	1.1	NA	0.061	NA	0.070	NA	0.39	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Nitrite	NE	NE	45	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services

NO = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA	WELL NUMBER									
			Action	Primary	M4-27D	M4-27D	M4-27D	M4-27S	M4-27S	M4-28D	M4-28D	M4-28D
	Level	ML										
Date Sampled					10/01/84	10/01/84	01/26/88	06/16/82	09/12/84	06/16/82	09/26/84	01/27/88
Sampled By					RADIAN	RADIAN	RADIAN	ES	RADIAN	ES	RADIAN	RADIAN
Date Analyzed												
Lab					RAS	RAS	SAC	ES	RAS	ES	RAS	SAC
Field Analysis					FTA	FTA						
Lab Analysis												
Antimony	NE	NE	NE	NE	NA	NA	ND	ND	NA	ND	NA	ND
Arsenic	NE	NE	NE	NE	0.004	0.004	ND	ND	0.002	ND	0.0022	ND
Beryllium	NE	NE	NE	NE	NA	NA	ND	ND	NA	ND	NA	ND
Cadmium	NE	NE	NE	NE	ND	ND	ND	ND	NA	ND	ND	ND
Chromium	NE	NE	NE	NE	0.003	0.003	ND	ND	ND	0.02	ND	ND
Copper	NE	NE	NE	NE	0.009	0.009	ND	ND	ND	ND	0.040	ND
Lead	NE	NE	NE	NE	0.008	0.008	ND	ND	ND	ND	0.017	ND
Mercury	NE	NE	NE	NE	0.0003	0.0003	ND	ND	ND	ND	0.0039	ND
Nickel	NE	NE	NE	NE	NA	NA	0.02	ND	NA	ND	NA	ND
Selenium	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	NE	NE	NE	0.007	0.007	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	NE	NE	NA	NA	ND	ND	NA	ND	ND	ND
Zinc	NE	NE	NE	NE	0.035	0.035	0.17	ND	ND	0.1400	0.008	0.258
Fluorine	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NE	0.59	0.59	NA	NA	2.4	NA	0.36	NA
Manganese	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	11	11	NA	NA	NA	NA	9.2	NA
Sodium	NE	NE	NE	NE	24	23	NA	NA	28	NA	13	NA
Sulfate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NE	NE	0.078	0.078	NA	NA	0.29	NA	0.061	NA
Cobalt	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Polydioxin	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well  
FTA = First field duplicate analysis  
FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services  
CES = Canale Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
B = Compound detected in Laboratory blank - not edited  
NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DBS Action Level	U.S. EPA Priority ML	M4-27D	M4-27D	M4-27D	M4-27D	M4-27S	M4-28D	M4-28D	M4-28D	M4-28S	M4-29D
Date Sampled			10/01/84	10/01/84	01/26/88	01/26/88	09/12/84	06/16/82	09/26/84	01/27/88	06/16/82	04/28/82
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN	RADIAN	ES	ES
Date Analyzed												
Lab			RAS	RAS	CES	CES	RAS	ES	RAS	SAC	ES	ES
Field Analysis			PDA	PFB								
Lab Analysis												
Total Alkalinity	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Nitrate	NE	AS	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
ALL UNITS ARE mg/l												
M4 - Monitoring Well												
PDA - First field duplicate analysis												
PFB - Second field duplicate analysis												
RADIAN - Radian Corporation, Sacramento												
RAS - Radian Analytical Services												
CES - Cerate Environmental Services												
SAC - Radian Analytical Services, Sacramento												
ND - Nothing detected												
NA - Not analyzed												
NE - Not established												

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29S	M4-30S		
Date Sampled			10/01/84	10/01/84	10/01/84	04/03/86	04/03/86	08/12/87	04/12/88	07/12/88	10/13/88	04/28/88	06/16/82	09/18/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN
Date Analyzed			04/10/86	04/10/86	04/10/86	04/10/86	04/10/86	09/01/87	04/12/88	07/12/88	10/28/88	10/28/88	ES	RAS
Lab			RAS	RAS	RAS	AUS	AUS	SAC	SAC	SAC	SAC	SAC	ES	RAS
Field Analysis			FDA	FDA	FDA	FDA	FDA							
Lab Analysis														
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0410	NA
Arsenic	NE	NE	0.003	0.003	0.003	NA	NA	NA	NA	NA	NA	NA	0.5500	NA
Barium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NE	NE	0.010	0.010	0.010	NA	NA	0.009	NA	NA	NA	NA	0.0800	0.15
Chromium	NE	NE	0.050	0.012	0.008	0.009	0.008	0.01	0.010	0.009	0.012	0.2400	0.2400	0.090
Copper	NE	NE	0.020	0.016	0.016	NA	NA	0.05	NA	NA	NA	0.5900	0.5900	NA
Lead	NE	NE	0.050	0.049	0.045	0.005	0.009	0.005	NA	NA	NA	0.0220	0.0220	NA
Mercury	NE	NE	0.002	0.0005	0.0006	0.0004	0.0004	NA	NA	NA	NA	0.0021	0.0016	NA
Nickel	NE	NE	NA	NA	NA	NA	NA	0.04	0.047	0.042	0.053	2.1300	2.1300	NA
Selenium	NE	NE	0.010	NA	NA	NA	NA	NA	NA	NA	NA	0.1050	0.1050	NA
Silver	NE	NE	0.050	0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NE	NE	0.055	0.048	NA	NA	NA	0.02	0.038	0.003	0.004	NA	NA	0.024
Fluorene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	14	14	NA	NA	NA	138	NA	NA	NA
Chloride	NE	NE	NA	NA	NA	14	14	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	3.1	2.4	2.4	NA	NA	NA	NA	NA	0.0278	NA	NA	6.7
Bicarbonate	NE	NE	13	13	13	9.1	9.6	NA	NA	NA	11	NA	NA	17
Magnesium	NE	NE	17	17	17	14	14	NA	NA	NA	15	NA	NA	16
Sodium	NE	NE	NA	NA	NA	6	7	NA	NA	NA	NA	NA	NA	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.027	NA	NA	NA
Barium	NE	NE	1.0	0.14	0.043	0.040	0.040	NA	NA	NA	0.042	NA	NA	0.36
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.014	NA	NA	NA
Hydrogen	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	39	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.025	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

AUS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-29D	M4-30S
Date Sampled			10/01/84	10/01/84	04/03/86	04/03/86	08/12/87	04/12/88	07/12/88	10/13/88	04/28/82	09/18/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN
Date Analyzed					04/10/86	04/10/86	09/01/87			10/28/88	ES	
Lab			RAS	RAS	AUS	AUS	SAC	SAC	SAC	SAC	ES	RMS
Field Analysis			FTD	FTD	FTD	FTD						
Lab Analysis												
Total Alkalinity	NE	NE	NA	NA	100	100	NA	NA	NA	NA	NA	NA
Nitrate	NE	45	NA	NA	0.59	0.59	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	140	140	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well  
 FTD = First field duplicate analysis  
 FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA Action Level	WELL NUMBER									
			M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S
Date Sampled			06/15/82	09/25/84	03/28/86	04/13/88	09/29/82	09/18/84	01/29/87	01/29/87	01/29/87	07/31/87
Sampled By			ES	RAS	RADIAN	RADIAN	ES	RAS	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				04/08/86					02/27/87	02/27/87	06/01/87	08/31/87
Lab			ES	RAS	AIS	SAC	ES	RAS	SAC	SAC	SAC	SAC
Field Analysis									FTA	FTA		
Lab Analysis												
Antimony	NE	NE	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND
Arsenic	NE	NE	0.050	0.0052	0.008	ND	ND	ND	ND	ND	ND	ND
Beryllium	NE	NE	ND	NA	NA	ND	ND	NA	ND	ND	ND	ND
Cadmium	NE	NE	0.010	ND	0.003	ND	ND	NA	0.0004	0.0004	ND	ND
Chromium	NE	NE	0.050	ND	0.061	ND	ND	ND	ND	ND	0.01	ND
Copper	NE	NE	ND	0.024	NA	ND	ND	ND	0.017	0.016	ND	0.007
Lead	NE	NE	0.050	0.0071	0.011	ND	ND	ND	ND	ND	0.009	ND
Mercury	NE	NE	0.002	ND	ND	ND	0.0180	ND	ND	ND	ND	ND
Nickel	NE	NE	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	NE	0.050	ND	0.007	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	ND	NA	NA	ND	ND	NA	ND	ND	0.011	ND
Zinc	NE	NE	ND	0.016	NA	0.007	ND	0.089	ND	ND	ND	0.021
Fluoride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	22	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NA	NA	22	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	1.6	NA	NA	NA	NA
Iron	NE	NE	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	13	8.5	NA	NA	4.2	NA	NA	NA	NA
Sodium	NE	NE	NA	17	14	NA	NA	31	NA	NA	NA	NA
Sulfate	NE	NE	NA	NA	8	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	1.0	0.075	0.088	NA	NA	0.25	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FTA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

AIS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S
Date Sampled			06/15/82	09/25/84	03/28/86	04/13/88	09/29/82	09/18/84	01/29/87	01/16/87	07/31/87	10/26/87
Sampled By			ES	RADIAN	RADIAN	RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				04/08/86					02/27/87	06/01/87	08/31/87	
Lab			ES	RAS	ALE	SAC	ES	RAS	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis									FTB			
Total Alkalinity	NE	NE	NA	NA	100	NA	NA	NA	NA	NA	NA	NA
Nitrate	NE	45	NA	NA	1.3	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	1.70	NA	NA	NA	NA	NA	NA	NA

**ALL UNITS ARE eq/1**

Тема: Судостроение - 194

FDA = First field duplicate analysis

FPDB = Second field duplicate analysis

RADIAN = Radian Comparison. Sacramento.

ANIS = Radisson Analytical Services, Austin

- National Analytical Services,
- Radiation Analytical Services,

— National Analytical Services  
= Redman Analytical Services  
Sacramento

**NVA = Net available**

NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	Date Sampled Sampled By Date Analyzed Lab	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER						Lab Analysis				
				M4-30S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S					
Antimony	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Arsenic	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Beryllium	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Cadmium	01/08/88 RADIAN	NE	0.010	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Chromium	01/08/88 RADIAN	NE	0.050	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Copper	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Lead	01/08/88 RADIAN	NE	0.050	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Mercury	01/08/88 RADIAN	NE	0.002	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Nickel	01/08/88 RADIAN	NE	0.010	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Selenium	01/08/88 RADIAN	NE	0.050	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Silver	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Thallium	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Zinc	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Fluoride	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Calcium	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Chloride	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Carbonate	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Iron	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Bicarbonate	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Magnesium	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Sodium	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Sulfate	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Aluminum	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Boron	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Barium	01/08/88 RADIAN	NE	1.0	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Chalc	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Potassium	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Manganese	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Hydrogen	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Sulfur	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Nitrogen	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D
Vanadium	01/08/88 RADIAN	NE	NE	09/29/82 ES	03/31/86 RADIAN	09/17/86 RADIAN	04/16/87 RADIAN	04/16/87 SAC	07/11/88 RADIAN	10/25/88 RADIAN	09/28/82 ES	09/27/82 ES	M4-38D	M4-38D

ALL UNITS ARE mg/l

Тема: Судебная медицина = 100

LTB = Second laboratory duplicate analysis

**Figure 1** – **Geometric representation of the proposed model**

**RADIAN = Radian Corporation, Sacramento**

ES = Engineering Science, Inc.

- Engineering students, etc.
- Radlan Analytical Services, AUS

— Radizon Analytical Services

SAC  
= Radiation Analytical Services, SAC

ND = Nothing detected

NO = Nothing detected  
NA = Not analyzed

**B** = Compound detected

NE = Not established

**THE UNIVERSITY OF CHICAGO**

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		M4-36S		M4-36S		M4-36S		M4-37		M4-38D		M4-38D	
	Action	Priority	M4-33S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-36S	M4-37	M4-37	M4-38D	M4-38D	M4-38D	M4-38D
Date Sampled			01/08/88	09/29/82	03/31/86	09/17/86	04/16/87	04/16/87	04/16/87	07/11/88	10/25/88	09/28/82	09/27/82	09/14/86		
Sampled By			RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	ES	RADIAN		
Date Analyzed					04/20/86											
Lab			SAC	ES	AUS	RAS	SAC	SAC	SAC	SAC	SAC	ES	ES	RAS		
Field Analysis																
Lab Analysis																
LJB																
Total Alkalinity	NE	NE	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	NE	AS	NA	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALL UNITS ARE mg/l																
M4 - Monitoring Well																
LJB - Second Laboratory duplicate analysis																
RADIAN = Radian Corporation, Sacramento																
AUS = Radian Analytical Services, Austin																
RAS = Radian Analytical Services																
SAC = Radian Analytical Services, Sacramento																
NA = Not analyzed																
NE = Not established																

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DBS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			MJ-405	MJ-415	MJ-415	MJ-415	MJ-415	MJ-415	MJ-425	MJ-425	MJ-435	MJ-435
Date Sampled			09/29/82	09/30/84	09/14/82	09/24/84	03/13/86	01/26/88	09/27/82	09/28/84	09/14/82	09/13/84
Sampled By			ES	RADIAN	ES	RADIAN	RADIAN	RADIAN	ES	RADIAN	ES	RADIAN
Date Analyzed							03/31/86					
Lab			ES	RAS	CES	RAS	AUS	SAC	ES	RAS	ES	RAS
Field Analysis												
Lab Analysis												
Arsenic	NE	NE	ND	NA	ND	NA	NA	ND	ND	NA	ND	NA
Barium	NE	0.050	ND	ND	ND	0.0040	ND	ND	ND	ND	ND	ND
Beryllium	NE	NE	ND	NA	ND	NA	NA	ND	ND	NA	ND	NA
Cadmium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	0.0050	ND
Chromium	NE	0.050	ND	0.20	0.010	ND	ND	ND	ND	0.38	ND	0.058
Copper	NE	NE	ND	0.038	ND	ND	NA	0.092	ND	0.092	ND	0.098
Lead	NE	0.050	0.0130	0.032	ND	0.020	ND	ND	ND	0.041	ND	ND
Mercury	NE	0.002	ND	0.0005	ND	ND	0.0002	ND	ND	0.0005	ND	ND
Nickel	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	ND	NA
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND
Thallium	NE	NE	ND	NA	ND	NA	NA	ND	ND	NA	ND	NA
Zinc	NE	NE	ND	0.074	ND	0.035	NA	ND	0.0400	0.17	ND	0.27
Fluoride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	16	NA	NA	NA	NA	NA
Chloride	NE	NE	NA	NA	NA	NA	18	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	4.2	ND	0.63	NA	NA	NA	15	NA	2.9
Bicarbonate	NE	NE	NA	43	ND	13	9.9	NA	NA	20	NA	41
Magnesium	NE	NE	NA	30	ND	19	13	NA	NA	17	NA	19
Sodium	NE	NE	NA	NA	ND	NA	6	NA	NA	NA	NA	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	1.0	NA	0.30	ND	0.098	0.044	NA	NA	0.58	NA	2.0
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
NA = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
AUS = Radian Analytical Services, Austin  
RAS = Radian Analytical Services  
CES = Granite Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		DATE		ANALYST		DATE		ANALYST		DATE		ANALYST		DATE		ANALYST	
	Action	Level	Primary	MCL	M4-40S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S	M4-41S
Date Sampled					09/29/82	09/30/84	09/14/82	09/24/84	03/13/86	01/26/88	09/27/82	09/28/84	09/14/82	09/13/84						
Sampled By					ES	RAS	ES	RAS	RADIAN	RADIAN	ES	RAS	ES	RAS						
Date Analyzed																				
Lab					ES	RAS	ES	RAS	ES	RAS	ES	RAS	ES	RAS						
Field Analysis																				
Lab Analysis																				
Vendian	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Nitrate	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

ALL UNITS ARE mg/l

M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 RAS = Radian Analytical Services  
 CES = Ceramite Environmental Services  
 SAC = Radian Analytical Services, Sacramento

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		DATE		ANALYST		METHOD		DATE		ANALYST		METHOD		DATE		ANALYST	
	Action	Level	U.S. EPA	WELL NUMBER	DATE	ANALYST	DATE	ANALYST	DATE	ANALYST	DATE	ANALYST	DATE	ANALYST	DATE	ANALYST	DATE	ANALYST	DATE	ANALYST
Date Sampled	ES				09/13/82	ES			09/21/84	RADIAN	03/21/86	01/12/87	RADIAN	04/26/88	RADIAN	07/20/88	RADIAN	07/20/88	RADIAN	10/06/88
Sampled By	ES				ES				RAS		AUS	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	RADIAN
Date Analyzed	ES				ES															10/23/88
Lab																				ES
Field Analysis																				ES
Lab Analysis																				ES
Antimony	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Asenic	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Barium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Beryllium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Cadmium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Chromium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Copper	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Lead	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Mercury	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Nickel	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Selenium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Silver	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Thallium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Zinc	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Fluorine	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Calcium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Chloride	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Carbonate	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Iron	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Aluminum	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Barium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Cobalt	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Potassium	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Manganese	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Molybdenum	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068
Silicon	NE		NE		NE		NE		NA		NA	0.004	0.004	0.053	0.054	0.044	0.048	0.042	0.038	0.068

ALL UNITS ARE mg/l

ES = Monitoring Well  
 ES = First field duplicate analysis  
 ES = Second field duplicate analysis  
 ES = First laboratory duplicate analysis  
 ES = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 AUS = Radian Analytical Services, Austin  
 RAS = Radian Analytical Services  
 CES = Ceramix Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in laboratory blank - not edited  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S
Date Sampled			09/13/82	09/21/84	03/21/86	01/12/87	01/12/87	01/12/87	04/26/88	07/20/88	07/20/88	10/06/88
Sampled By			ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			ES	RAS	AUS	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Lab												
Field Analysis												
Lab Analysis												
Vocodum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.019
Total Alkalinity	NE	NE	NA	NA	70	NA	NA	NA	NA	NA	NA	NA
Nitrate	NE	45	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	79	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

RAS = Radian Analytical Services

CES = Camille Environmental Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA Action Level	M4-44S Primary MCL	WELL NUMBER									
				M4-45S	M4-46S	M4-47S	M4-48S	M4-49	M4-51	M4-52	M4-53		
Date Sampled				09/14/82	09/29/82	09/29/82	09/29/84	09/29/82	10/01/84	10/15/87	10/16/87	10/21/87	
Sampled By				ES	ES	ES	RAS	ES	RAS	RADIAN	RADIAN	RADIAN	
Date Analyzed				10/23/88									
Lab				SAC	ES	ES	RAS	ES	RAS	SAC	SAC	SAC	
Field Analysis				FTB									
Lab Analysis													
Antimony	NE	NE	NE	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND
Asenic	NE	NE	0.050	ND	ND	ND	NA	ND	ND	ND	ND	ND	0.004
Beryllium	NE	NE	0.010	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Cadmium	NE	NE	0.010	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Chromium	NE	NE	0.050	0.037	ND	ND	0.070	ND	0.86	ND	0.009	ND	0.01
Copper	NE	NE	0.050	ND	ND	ND	0.020	ND	0.086	ND	0.007	ND	ND
Lead	NE	NE	0.050	ND	ND	ND	0.012	0.0170	0.013	0.0160	ND	ND	ND
Manganese	NE	NE	0.002	ND	ND	ND	NA	ND	0.0005	ND	ND	ND	ND
Nickel	NE	NE	0.010	0.068	ND	ND	NA	ND	NA	ND	ND	ND	ND
Selenium	NE	NE	0.010	ND	ND	ND	0.011	ND	ND	ND	ND	ND	ND
Silver	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	NE	ND	ND	ND	0.039	ND	0.24	ND	ND	ND	0.08
Zinc	NE	NE	NE	0.007	ND	ND	NA	ND	NA	NA	NA	NA	NA
Fluoride	NE	NE	NE	15B	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	0.063	NA	NA	3.7	NA	2.8	NA	NA	NA	NA
Bromine	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Monochloro	NE	NE	NE	10B	NA	NA	14	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	26	NA	NA	14	NA	50	NA	NA	NA	NA
Sodium	NE	NE	NE	14	NA	NA	15	NA	21	NA	NA	NA	NA
Sulfate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	1.0	0.038	NA	NA	0.17	NA	3.6	NA	NA	NA	NA
Cobalt	NE	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	0.023	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	30	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l  
 M4 - Monitoring Well  
 FTB - Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in Laboratory blank - not edited  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS U.S. EPA		WELL NUMBER									
	Action	Primary	M4-44S	M4-45S	M4-46S	M4-47S	M4-49	M4-51	M4-52	M4-53		
	Level	MCL										
Date Sampled			10/06/88	09/14/82	09/19/84	09/29/82	09/29/84	10/01/84	09/29/82	10/15/87	10/16/87	10/21/87
Sampled By			RAOJAN	ES	RAOJAN	ES	RAOJAN	RAOJAN	ES	RAOJAN	RAOJAN	RAOJAN
Date Analyzed			10/23/88									
Lab			SAC	ES	RAS	ES	RAS	RAS	ES	SAC	SAC	SAC
Field Analysis			FTB									
Lab Analysis												
Microbe	NE	AS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FTB = Second field duplicate analysis

RADIUM = Radian Corporation, Sacramento

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HEHECD 6010 ANALYTES

Parameter	L&S Action Level	U.S. EPA Primary MCL	M4-54	M4-54	M4-55	M4-55	M4-57	M4-57	M4-58	M4-59	M4-59
Date Sampled			04/27/87	10/19/87	04/20/87	10/14/87	10/12/87	04/28/87	10/13/87	04/02/86	04/21/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/28/87		05/28/87			05/28/87		04/10/86	05/28/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	AIS	SAC
Field Analysis			FDA	FDB	FDA			FDA			FDA
Lab Analysis											
Activity	NE	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND
Arsenic	NE	0.050	0.004	ND	0.004	ND	ND	0.004	ND	ND	ND
Beryllium	NE	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND
Cadmium	NE	0.010	ND	ND	0.009	ND	ND	0.006	ND	ND	0.006
Chromium	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	NE	NE	ND	ND	0.01	0.01	0.01	0.007	0.009	NA	0.007
Lead	NE	0.050	ND	ND	ND	ND	ND	ND	ND	0.015	ND
Mercury	NE	0.002	ND	ND	ND	ND	ND	ND	ND	0.0004	ND
Nickel	NE	0.010	ND	ND	ND	ND	ND	ND	ND	NA	ND
Selenium	NE	0.050	0.01	ND	0.01	0.03	ND	0.06	ND	ND	0.01
Silver	NE	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND
Thallium	NE	NE	ND	ND	ND	ND	ND	ND	ND	NA	ND
Zinc	NE	NE	NA	NA	NA	NA	NA	NA	0.01	NA	NA
Fluorine	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	NA	NA	NA	NA	NA	10	NA
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	11	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	7.1	NA
Magnesium	NE	NE	NA	NA	NA	NA	NA	NA	NA	13	NA
Sodium	NE	NE	NA	NA	NA	NA	NA	NA	NA	1	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	0.050	NA
Berilium	NE	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	81	NA

ALL UNITS ARE mg/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 AIS = Radian Analytical Services, Austin  
 CES = Granite Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			MJ-54	MJ-54	MJ-54	MJ-55	MJ-55	MJ-57	MJ-57	MJ-58	MJ-59	MJ-59
Date Sampled			04/27/87	10/19/87	10/19/87	04/20/87	10/14/87	10/14/87	04/28/87	10/13/87	04/02/86	04/21/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			05/28/87			05/28/87			05/28/87		04/10/86	05/26/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	AUS	SAC
Field Analysis			FDA	FDA	FDB	FDA			FDA			FDA
Lab Analysis												
Remarks	NE	AS	NA	NA	NA	NA	NA	NA	NA	NA	0.36	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	1.40	NA

ALL UNITS ARE mg/l

MJ - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

AUS - Radian Analytical Services, Austin

CES - Canale Environmental Services

SAC - Radian Analytical Services, Sacramento

NA - Not analyzed

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-59	M4-60	M4-61	M4-61	M4-61	M4-62	M4-63	M4-63	M4-67	M4-70
Date Sampled			10/09/87	01/13/87	03/19/86	01/29/87	01/19/88	04/26/88	04/02/86	04/02/86	03/20/86	01/29/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				02/10/87	04/08/86	02/27/87			04/10/86	04/10/86	04/08/86	02/27/87
Lab			SAC	SAC	AUS	SAC	SAC	SAC	AUS	AUS	AUS	SAC
Field Analysis												
Lab Analysis												
Antimony	NE	NE	ND	ND	NA	ND	ND	ND	NA	NA	NA	ND
Arsenic	NE	0.050	ND	ND	NA	ND	ND	ND	NA	ND	ND	ND
Beryllium	NE	NE	ND	ND	NA	0.0004	ND	ND	NA	0.0008	ND	ND
Cadmium	NE	0.010	ND	ND	0.005	ND	ND	ND	0.002	ND	ND	ND
Chromium	NE	0.050	0.016	0.010	ND	ND	ND	ND	0.008	ND	0.017	0.009
Copper	NE	NE	0.01	0.441	NA	ND	ND	ND	NA	NA	ND	ND
Lead	NE	0.050	ND	ND	0.007	ND	ND	ND	0.009	0.024	0.007	ND
Mercury	NE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	NE	NE	ND	ND	NA	ND	ND	ND	NA	NA	ND	ND
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	0.032	ND	ND
Silver	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	ND	ND	NA	ND	ND	ND	NA	NA	ND	ND
Zinc	NE	NE	0.003	0.058	NA	ND	ND	0.035	NA	NA	NA	NA
Fluorene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NA	NA	11	NA	NA	NA	17	17	21	NA
Chloride	NE	NE	NA	NA	14	NA	NA	NA	18	18	18	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NA	NA	7.1	NA	NA	NA	11	11	11	NA
Sodium	NE	NE	NA	NA	14	NA	NA	NA	14	14	16	NA
Sulfate	NE	NE	NA	NA	6	NA	NA	NA	7	12	4	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	1.0	NA	NA	0.061	NA	NA	NA	0.12	0.084	0.10	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Astin

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-59	M4-60	M4-61	M4-61	M4-61	M4-62	M4-63	M4-63	M4-67	M4-70	M4-70
Date Sampled			10/09/87	01/13/87	03/19/86	01/29/87	01/19/88	04/26/88	04/02/86	04/02/86	03/20/86	01/29/87	01/29/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				02/10/87	04/08/86	02/27/87			04/10/86	04/10/86	04/08/86	02/27/87	02/27/87
Lab			SAC	SAC	AUS	SAC	SAC	SAC	AUS	AUS	AUS	SAC	SAC
Field Analysis									FDA	FDB			
Lab Analysis													
Total Alkalinity	NE	NE	NA	NA	79	NA	NA	NA	110	110	130	NA	NA
Nitrate	NE	45	NA	NA	0.36	NA	NA	NA	0.98	1.0	0.17	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	110	NA	NA	NA	190	190	61	NA	NA
ALL UNITS ARE mg/l													
M4 = Monitoring Well													
FDA = First field duplicate analysis													
FDB = Second field duplicate analysis													
LDA = First laboratory duplicate analysis													
LDB = Second laboratory duplicate analysis													
RADIAN = Radian Corporation, Sacramento													
AUS = Radian Analytical Services, Austin													
SAC = Radian Analytical Services, Sacramento													
NA = Not analyzed													
NE = Not established													

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	U.S. EPA Action Level	Primary MCL	WELL NUMBER										M4-88
				M4-70	M4-70	M4-71	M4-72	M4-74	M4-74	M4-76	M4-76	M4-76	M4-76	
				10/16/87	10/16/87	04/22/88	01/08/88	04/27/88	04/27/88	04/27/88	04/28/88	04/28/88	04/28/88	
				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
				LDA	LDB									
Antimony		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic		NE	0.050	0.004	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium		NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0006
Chromium		NE	0.050	0.009	ND	ND	ND	0.007	0.007	0.005	0.005	0.005	0.005	0.010
Copper		NE	NE	ND	ND	0.010	ND	0.008	0.008	0.009	0.009	0.009	0.009	0.191
Lead		NE	0.050	ND	ND	ND	ND	0.006	0.006	ND	ND	ND	ND	ND
Mercury		NE	0.002	ND	ND	ND	0.03	ND	ND	ND	ND	ND	ND	ND
Nickel		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium		NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver		NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc		NE	NE	ND	ND	1.2	ND	0.034	0.034	0.028	0.028	0.028	0.028	0.051
Fluorine		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium		NE	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydrogen		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

OES = Caronde Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Priority MCL	M4-70	M4-71	M4-72	M4-74	M4-75	M4-76	M4-76	M4-88
Date Sampled			10/16/87	04/22/88	01/08/88	04/27/88	04/27/88	04/27/88	04/28/88	01/06/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed										
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis			LDA							
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	NE	45	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LTB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Capital Environmental Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER						M4-100	M4-100	M4-100	M4-101
			M4-89	M4-90	M4-91	M4-91	M4-91	M4-100				
Date Sampled			01/06/87	01/20/87	01/20/87	01/20/87	01/20/87	12/21/85	02/27/86	04/14/88	07/19/88	11/18/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			02/24/87	02/21/87	02/24/87	02/24/87	02/24/87	01/06/86	03/12/86	SAC	SAC	11/22/85
Lab			SAC	SAC	SAC	SAC	SAC	AIS	AIS	SAC	SAC	AIS
Field Analysis								FDA	FEB			
Lab Analysis												
Antimony	NE	NE	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA
Arsenic	NE	0.050	ND	ND	ND	ND	ND	0.006	0.006	ND	ND	ND
Barium	NE	NE	0.0006	ND	ND	ND	ND	NA	NA	ND	ND	NA
Beryllium	NE	0.010	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA
Cadmium	NE	0.050	0.0113	0.014	0.008	ND	ND	0.013	0.006	0.020	0.013	0.038
Chromium	NE	NE	0.18	ND	0.307	0.134	ND	NA	NA	ND	ND	NA
Copper	NE	0.050	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND
Lead	NE	0.002	ND	ND	ND	ND	ND	ND	0.0003	ND	ND	0.0002
Mercury	NE	NE	ND	ND	ND	ND	ND	NA	NA	0.048	ND	NA
Nickel	NE	0.010	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND
Selenium	NE	0.050	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND
Silver	NE	NE	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA
Thallium	NE	NE	0.038	0.154	0.020	ND	NA	NA	NA	0.075	0.003	NA
Zinc	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	NE	NE	NA	NA	NA	NA	12	10	11	NA	NA	14
Calcium	NE	NE	NA	NA	NA	NA	12	12	11	NA	NA	15
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	7.5	6.7	7.5	NA	NA	8.1
Magnesium	NE	NE	NA	NA	NA	NA	14	11	12	NA	NA	15
Sodium	NE	NE	NA	NA	NA	NA	3.4	1.7	9	NA	NA	5.2
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	0.054	0.055	0.039	NA	NA	0.04
Barium	NE	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	76	77	79	NA	NA	75
Total Alkalinity	NE	NE	NA	NA	NA	NA	1.3	1.3	1.2	NA	NA	1.5
Nitrate	NE	45	NA	NA	NA	NA	230	230	180	NA	NA	210
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	230	230	180	NA	NA	210

ALL UNITS ARE mg/l  
 MJ = Monitoring Well  
 FDA = First field duplicate analysis  
 FEB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 AIS = Radian Analytical Services, Austin  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-101	M4-101	M4-101	M4-102	M4-102	M4-102	M4-102	M4-102	M4-103	M4-103
Date Sampled					03/05/86	08/05/87	08/05/87	08/05/87	03/10/86	08/07/87	04/25/88	07/12/88	12/20/85	12/20/85
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					03/20/86	08/31/87	08/31/87	08/31/87	03/20/86	08/31/87	08/31/87	01/06/86	01/06/86	01/06/86
Lab					AUS	SAC	SAC	SAC	AUS	SAC	SAC	AUS	AUS	AUS
Field Analysis														
Lab Analysis						LDA	LDB							
Antimony	NE	NE	NE	NE	NA	ND	ND	ND	NA	ND	ND	ND	NA	NA
Asenic	NE	NE	NE	0.050	ND	ND	ND	ND	0.007	0.005	ND	ND	NA	0.005
Beryllium	NE	NE	NE	NE	NA	ND	ND	ND	NA	ND	ND	ND	NA	NA
Cadmium	NE	NE	NE	0.010	0.002	0.008	0.008	0.002	0.003	ND	ND	ND	ND	ND
Chromium	NE	NE	NE	0.050	ND	0.042	0.062	0.036	0.026	0.008	0.01	ND	0.014	0.014
Copper	NE	NE	NE	NE	NA	ND	0.062	0.01	NA	0.06	ND	ND	NA	NA
Lead	NE	NE	NE	0.050	ND	ND	ND	ND	0.003	ND	ND	ND	ND	ND
Mercury	NE	NE	NE	0.002	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	NE	NE	NE	NE	NA	0.035	0.039	0.035	NA	ND	ND	ND	NA	NA
Selenium	NE	NE	NE	0.010	ND	ND	ND	ND	0.012	ND	ND	ND	ND	0.003
Silver	NE	NE	NE	0.050	ND	ND	0.011	0.005	NA	ND	ND	ND	NA	NA
Thallium	NE	NE	NE	NE	NA	0.033	0.079	0.022	NA	0.02	NA	NA	NA	NA
Zinc	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorine	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	NE	11	NA	NA	NA	11	NA	NA	NA	9.5	11
Chloride	NE	NE	NE	NE	16	NA	NA	NA	7	NA	NA	NA	10	11
Carbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	7.3	NA	NA	7.8	5.2	NA	NA	NA	5.8	5.8
Sodium	NE	NE	NE	NE	14	NA	NA	17	20	NA	NA	NA	12	12
Sulfate	NE	NE	NE	NE	4	NA	NA	140	4	NA	NA	NA	3.0	12
Aluminum	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NE	1.0	0.046	NA	NA	0.068	0.060	NA	NA	NA	0.057	0.059
Cobalt	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METEORIC 6010 ANALYSES

Parameter	U.S. EPA		WELL NUMBER		M4-101		M4-102		M4-103		M4-105	
	Action	Priority	M4-101	M4-101	M4-101	M4-101	M4-102	M4-102	M4-102	M4-102	M4-103	M4-105
Date Sampled	NE	NE	03/05/86	08/05/87	08/05/87	04/14/88	11/04/85	03/10/86	08/07/87	04/25/88	12/20/85	12/20/85
Sampled By	NE	45	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed	NE	NE	03/20/86	08/31/87	08/31/87	08/31/87	11/25/85	03/20/86	08/31/87	01/06/86	01/06/86	01/06/86
Lab	NE	NE	AUS	SAC	SAC	SAC	AUS	AUS	SAC	AUS	AUS	AUS
Field Analysis												
Lab Analysis												
Total Alkalinity	NE	NE	68	NA	NA	NA	74	85	NA	NA	72	69
Nitrogen	NE	45	1.7	NA	NA	NA	2.5	2.5	NA	NA	1.3	1.3
Total Dissolved Solids	NE	NE	185	NA	NA	NA	250	430	NA	NA	230	420
ALL UNITS ARE mg/l												
M4 - Monitoring Well												
FPA - First field duplicate analysis												
FDB - Second field duplicate analysis												
LDA - First laboratory duplicate analysis												
LDB - Second laboratory duplicate analysis												
RADIAN = Radian Corporation, Sacramento												
AUS = Radian Analytical Services, Astin												
SAC = Radian Analytical Services, Sacramento												
NA = Not analyzed												
NE = Not established												

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA	Primary	WELL NUMBER									
				M4-103	M4-103	M4-104	M4-104	M4-105	M4-105	M4-105	M4-105	M4-105	M4-106
Date Sampled				03/10/86	08/04/87	12/15/85	03/26/86	12/21/85	03/27/86	04/26/88	04/26/88	07/19/88	11/21/85
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				03/20/86	08/13/87	12/30/85	04/08/86	01/06/86	04/08/86				11/26/85
Lab				AUS	SAC	AUS	AUS	AUS	AUS	SAC	SAC	SAC	AUS
Field Analysis										LDA	LDB		
Lab Analysis													
Antimony	NE	NE	NE	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA
Asenic	NE	0.050	NE	ND	ND	0.004	0.008	ND	0.007	ND	ND	ND	ND
Beryllium	NE	NE	NE	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA
Cadmium	NE	0.010	NE	0.006	ND	ND	ND	0.003	0.003	ND	ND	ND	0.008
Chromium	NE	0.050	NE	0.020	0.017	ND	0.013	0.036	0.015	0.011	0.010	0.010	0.019
Copper	NE	NE	NE	NA	ND	NA	NA	NA	NA	0.010	ND	ND	NA
Lead	NE	0.050	NE	0.003	ND	ND	ND	0.002	0.007	ND	ND	ND	ND
Mercury	NE	0.002	NE	ND	ND	0.0002	ND	ND	ND	ND	ND	ND	ND
Nickel	NE	NE	NE	NA	0.016	NA	NA	NA	NA	ND	ND	ND	NA
Selenium	NE	0.010	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	NE	0.010	ND	ND	0.007	0.002	0.010	ND	ND	ND	0.007
Thallium	NE	NE	NE	NA	ND	NA	NA	NA	NA	ND	ND	ND	NA
Zinc	NE	NE	NE	NA	0.024	NA	NA	NA	NA	ND	0.004	0.004	NA
Fluorine	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	10	NA	12	18	15	13	NA	NA	NA	12
Chloride	NE	NE	NE	11	NA	ND	19	33	19	NA	NA	NA	13
Carbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	6.3	NA	6.8	11	4.3	8.3	NA	NA	NA	7.5
Sodium	NE	NE	NE	13	NA	30	30	53	30	NA	NA	NA	14
Sulfate	NE	NE	NE	20	NA	68	56	49	27	NA	NA	NA	17
Aluminum	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Berilium	NE	1.0	NE	0.019	NA	0.053	0.048	0.11	0.040	NA	NA	0.076	0.022
Cobalt	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.041	NA
Potassium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NE	73	NA	ND	87	110	100	NA	NA	NA	80

ALL UNITS ARE mg/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS		U.S. EPA		WELL NUMBER		M4-103		M4-104		M4-105		M4-105		M4-105		M4-105		M4-105		M4-106	
	Action	Level	Primary	MCL																		
Date Sampled																						
Sampled By																						
Date Analyzed																						
Lab																						
Field Analysis																						
Lab Analysis																						
Nitrate	NE	AS																				
Total Dissolved Solids	NE	NE																				

ALL UNITS ARE mg/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LDB - Second Laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

AUS = Radiant Analytical Services, Austin

SAC = Radiant Analytical Services, Sacramento

NA = Not analyzed

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER										
			M4-106	M4-107	M4-107	M4-108	M4-108	M4-108	M4-110	M4-110	M4-111	M4-111	
Date Sampled			03/13/86	11/07/85	04/01/86	10/05/88	12/27/85	04/01/86	07/12/88	11/06/85	03/31/86	11/06/85	04/03/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/31/86	11/13/85	04/10/86	10/20/88	01/03/86	04/10/86	04/10/86	11/25/85	04/10/86	11/25/85	04/10/86
Lab			AUS	AUS	AUS	SAC	AUS	AUS	AUS	AUS	AUS	AUS	AUS
Field Analysis													FDA
Lab Analysis													
Antimony	NE	NE	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA
Arsenic	NE	0.050	0.009	0.013	0.011	ND	0.005	0.005	ND	ND	0.008	ND	0.008
Barium	NE	NA	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA
Beryllium	NE	0.010	ND	ND	ND	ND	0.004	ND	ND	0.002	ND	0.002	ND
Cadmium	NE	0.050	ND	0.009	0.013	0.011	ND	0.006	0.009	0.016	0.010	0.026	ND
Chromium	NE	NE	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA
Copper	NE	NE	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA
Lead	NE	0.050	0.002	0.02	0.007	ND	ND	0.036	ND	ND	0.029	ND	0.008
Mercury	NE	0.002	ND	ND	0.0003	NA	NA	0.0002	ND	ND	ND	ND	ND
Nickel	NE	NE	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	ND	ND	ND	ND	ND	0.002	ND	ND	0.004	ND	ND
Thallium	NE	NE	NA	NA	NA	ND	NA	NA	ND	NA	NA	NA	NA
Zinc	NE	NE	NA	NA	NA	0.006	NA	NA	ND	NA	NA	NA	NA
Fluoride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	14	12	10	9.4	17.0	19	11	11	12	15	13
Chloride	NE	NE	16	21	20	NA	28	15	19	19	18	20	16
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	7.7	7.2	4.7	6.3	11	10	7.3	8.1	8.1	11	8.1
Sodium	NE	NE	15	17	30	13	19	19	16	17	17	17	14
Sulfate	NE	NE	4	5.2	13	NA	37	30	20	6	6	12	15
Aluminum	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	0.010	NA	NA	NA	NA	NA	NA	NA
Barium	NE	1.0	0.026	0.18	0.12	0.0023	0.024	0.045	0.030	0.049	0.078	0.078	0.024
Cobalt	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	29	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	0.024	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	84	79	94	NA	103	110	82	92	89	89	94
Nitrate	NE	45	1.3	1.7	1.7	NA	0.79	1.6	1.7	1.8	1.9	1.8	1.8
Total Dissolved Solids	NE	NE	98	230	170	NA	270	180	260	170	260	260	130

ALL UNITS ARE mg/l  
 MJ = Monitoring Well  
 FDA = First field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Primary	Level	MCL	M4-111	M4-111	M4-112	M4-112	M4-114	M4-114	M4-114	M4-114	M4-114	M4-114
Date Sampled					04/03/86	01/15/88	12/20/85	04/02/86	11/11/85	02/28/86	01/07/88	01/07/88	04/21/88	04/21/88
Sampled by					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					04/10/86	01/06/86	01/06/86	04/10/86	11/19/85	03/12/86	SAC	SAC	SAC	SAC
Lab					AUS	AUS	AUS	AUS	AUS	AUS	LDA	LDA	LDA	LDA
Field Analysis					FTB									
Lab Analysis														
Antimony	NE	NE	NE	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
Arsenic	NE	NE	NE	0.050	0.007	ND	0.006	0.005	0.007	0.006	ND	ND	ND	ND
Beryllium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Cadmium	NE	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	NE	NE	NE	0.050	0.005	0.01	0.011	0.010	0.047	0.006	0.03	0.03	0.018	0.018
Copper	NE	NE	NE	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
Lead	NE	NE	NE	0.050	0.009	ND	ND	0.013	0.003	0.003	ND	ND	ND	ND
Mercury	NE	NE	NE	0.002	ND	ND	ND	NA	0.003	ND	0.21	0.21	0.11	0.10
Nickel	NE	NE	NE	NA	NA	0.06	NA	NA	NA	NA	ND	ND	ND	ND
Selenium	NE	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	NE	NE	0.050	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	NE	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND
Zinc	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND
Fluoride	NE	NE	NE	NE	NA	NA	NA	17	10	13	NA	NA	NA	NA
Calcium	NE	NE	NE	NE	14	NA	18	17	10	13	NA	NA	NA	NA
Chloride	NE	NE	NE	NE	17	NA	22	21	17	19	NA	NA	NA	NA
Carbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	8.9	NA	9.4	9.7	6.3	8.6	NA	NA	NA	NA
Sodium	NE	NE	NE	NE	16	NA	17	17	11	13	NA	NA	NA	NA
Sulfate	NE	NE	NE	NE	15	NA	22	13	6.2	12	NA	NA	NA	NA
Aluminum	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NE	1.0	0.024	NA	0.050	0.034	0.033	0.026	NA	NA	NA	NA
Cobalt	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 - Monitoring Well

FTB - First field duplicate analysis

LDA - Second field duplicate analysis

NE - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		WELL NUMBER		WELL NUMBER		WELL NUMBER		WELL NUMBER		WELL NUMBER		WELL NUMBER		WELL NUMBER	
	Action	Primary	ML	ML-111	ML-112	ML-112	ML-114	ML-114	ML-114	ML-114	ML-114	ML-114	ML-114	ML-114	ML-114	ML-114	ML-114	ML-114
Date Sampled				04/03/86	01/15/88	12/20/85	04/02/86	11/11/85	02/28/86	01/07/88	01/07/88	01/07/88	04/21/88	04/21/88	04/21/88	04/21/88	04/21/88	04/21/88
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				04/10/86	01/06/86	01/06/86	04/10/86	11/19/85	03/12/86									
Lab				AUS	AUS	AUS	AUS	AUS	AUS									
Field Analysis				FTB														
Lab Analysis																		
Total Alkalinity	NE	NE	94	NA	100	100	84	86	86	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate	NE	45	1.8	NA	0.67	0.70	1.2	1.1	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	140	NA	270	190	190	200	200	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

ML = Monitoring Well

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-114	M4-114	M4-115	M4-115	M4-115	M4-115	M4-116	M4-116	M4-116	M4-116
Asbestos	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	NE	NE	0.050	0.017	0.018	0.009	0.006	0.019	0.014	0.039	0.040	0.004	0.01
Copper	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	NE	NE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	NE	NE	0.031	0.047	0.047	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	NE	NE	0.005	0.003	0.003	ND	ND	ND	ND	ND	ND	ND	0.72
Fluoride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	NE	NE	ND	148	148	14	15	NA	12	18	19	19	NA
Chloride	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	ND	0.059	0.059	NA	NA	NA	0.031	NA	NA	NA	NA
Ricarbonate	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	ND	8.88	8.88	11	11	NA	9.3	12	12	12	NA
Sodium	NE	NE	ND	138	138	13	15	NA	11	17	18	17	NA
Sulfate	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	ND	0.083	0.083	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	ND	0.024	0.024	NA	NA	NA	0.025	NA	NA	NA	NA
Barium	NE	NE	1.0	0.025	0.025	0.056	0.054	NA	0.049	0.041	0.038	0.049	NA
Cobalt	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Potassium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Manganese	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Molybdenum	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Silicon	NE	NE	ND	35	35	NA	NA	NA	29	NA	NA	NA	NA
Vanadium	NE	NE	ND	0.023	0.023	NA	NA	NA	0.026	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	NA	97	96	NA	NA	110	110	120	NA

ALL UNITS ARE mg/l  
 MW = Monitoring Well  
 FDB = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in Laboratory blank - not edited  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES		U.S. EPA		Action		Primary		MCL		M4-114		M4-115		M4-116		M4-117		M4-118		M4-119		M4-120	
	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
Date Sampled																								
Sampled By																								
Date Analyzed																								
Lab																								
Field Analysis																								
Lab Analysis																								
Mirrors	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

AUS = Radiant Analytical Services, Austin

SAC = Radiant Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS		U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-116	M4-117	M4-118	M4-119	M4-120	M4-121	M4-121	M4-121	M4-122			
Date Sampled			07/06/88	03/04/86	03/25/86	03/05/86	03/04/86	01/25/88	02/26/86	07/11/88	10/19/88	02/26/86		
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN		
Date Analyzed			10/25/88	03/12/86	04/08/86	03/20/86	03/12/86	03/12/86	03/12/86		10/31/88			
Lab			SAC	AUS	AUS	AUS	AUS	SAC	AUS	SAC	SAC	AUS		
Field Analysis														
Lab Analysis														
Antimony	NE		ND	NA	NA	NA	NA	ND	NA	ND	ND	NA		
Arsonic	NE	0.050	ND	NA	0.008	ND	ND	ND	0.008	ND	ND	0.004		
Barium	NE		ND	NA	NA	NA	NA	ND	NA	ND	ND	NA		
Beryllium	NE	0.010	ND	0.004	ND	ND	0.005	ND	0.003	ND	ND	ND		
Cadmium	NE	0.050	0.014	0.008	0.016	0.009	0.008	0.01	0.033	0.018	0.015	ND		
Chromium	NE		ND	NA	NA	NA	NA	ND	NA	ND	ND	NA		
Copper	NE	0.050	ND	0.003	0.005	0.003	0.003	ND	ND	ND	ND	ND		
Lead	NE	0.050	ND	ND	NA	0.004	ND	ND	ND	ND	NA	ND		
Mercury	NE	0.002	ND	NA	NA	NA	NA	0.09	NA	0.050	0.050	NA		
Nickel	NE	0.010	ND	NA	0.005	ND	ND	ND	0.002	ND	ND	ND		
Selenium	NE	0.050	ND	0.006	0.005	ND	0.002	ND	0.002	ND	ND	ND		
Silver	NE		ND	NA	NA	NA	NA	ND	NA	ND	ND	NA		
Thallium	NE		ND	NA	NA	NA	NA	0.03	NA	0.009	0.009	NA		
Zinc	NE	0.006	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Fluoride	NE	NA	NA	NA	NA	15	17	NA	13	NA	148	13		
Calcium	NE	NA	168	17	14	16	17	NA	13	NA	NA	11		
Chloride	NE	NA	NA	18	12	16	17	NA	NA	NA	NA	NA		
Carbonate	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.028	NA		
Iron	NE	0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Bicarbonate	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Magnesium	NE	NA	108	9.6	6.2	11	9.7	NA	6.5	NA	9.48	10		
Sodium	NE	NA	148	14	14	12	14	NA	14	NA	16	11		
Sulfate	NE	NA	NA	8	9	8	4	NA	8	NA	NA	5		
Aluminum	NE	0.080	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA		
Boron	NE	0.032	ND	NA	NA	NA	NA	NA	NA	NA	0.018	NA		
Barium	NE	1.0	0.034	0.040	0.019	0.058	0.071	NA	0.023	NA	0.041	0.046		
Cobalt	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA		
Potassium	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA		
Manganese	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	0.003	NA		
Molybdenum	NE	NE	ND	NA	NA	NA	NA	NA	NA	NA	ND	NA		
Silicon	NE	NE	35	NA	NA	NA	NA	NA	NA	NA	36	NA		
Vanadium	NE	NE	0.026	NA	NA	NA	NA	NA	NA	NA	0.029	NA		
Total Alkalinity	NE	NE	NA	94	93	100	96	NA	81	NA	NA	100		

ALL UNITS ARE mg/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
AUS = Radian Analytical Services, Austin  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
B = Compound detected in Laboratory blank - not edited  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER										
	Action Level	Primary MCL	M4-116	M4-116	M4-117	M4-118	M4-119	M4-120	M4-120	M4-121	M4-121	M4-121	M4-122
Date Sampled			07/06/88	10/10/88	03/04/86	03/25/86	03/05/86	03/04/86	01/23/88	02/26/86	07/11/88	10/19/88	02/26/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/25/88		03/12/86	04/06/86	03/20/86	03/12/86		03/12/86		10/31/88	
Lab			SAC	SAC	AUS	AUS	AUS	AUS	SAC	AUS	SAC	SAC	AUS
Field Analysis													
Lab Analysis													
Nitrate	NE	45	NA	NA	1.5	1.0	0.47	1.6		1.2	NA	NA	0.58
Total Dissolved Solids	NE	NE	NA	NA	190	170	180	200	NA	170	NA	NA	190

ALL UNITS ARE mg/l

ALL UNITS ARE mg/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
AUS = Radian Analytical Services, Austin  
SAC = Radian Analytical Services, Sacramento  
NA = Not analyzed  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-123	M4-124	M4-125	M4-126	M4-127	M4-128	M4-128	M4-128	M4-129	M4-129
Date Sampled			03/25/86	02/25/86	02/25/86	03/03/86	03/04/86	01/16/87	04/16/87	10/23/87	01/13/88	01/16/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/08/86	04/10/86	04/10/86	03/12/86	03/12/86	02/25/87	06/01/87			02/25/87
Lab			AUS	AUS	AUS	AUS	AUS	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Antimony	NE	NE	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Asenic	NE	0.050	0.007	0.005	NA	0.006	NA	ND	ND	ND	ND	0.004
Baryllium	NE	NE	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Cadmium	NE	0.010	0.003	0.003	0.008	ND	0.005	ND	0.05	ND	ND	ND
Chromium	NE	0.050	0.014	0.011	0.023	0.020	0.008	0.021	ND	ND	ND	0.019
Copper	NE	NE	NA	NA	NA	NA	NA	0.123	0.01	ND	ND	0.014
Lead	NE	0.050	0.018	0.002	0.001	0.036	0.029	ND	ND	ND	ND	ND
Mercury	NE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	NE	NE	NA	NA	NA	NA	NA	0.019	0.03	ND	ND	0.05
Selenium	NE	0.010	ND	ND	ND	0.007	0.005	ND	0.02	ND	ND	ND
Silver	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Zinc	NE	NE	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Fluorine	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	13	29	16	16	17	NA	NA	NA	NA	NA
Chloride	NE	NE	16	12	15	12	15	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	8.9	3.5	12	9.8	11	NA	NA	NA	NA	NA
Magnesium	NE	NE	14	13	13	14	3	NA	NA	NA	NA	NA
Sodium	NE	NE	15	37	8	7	3	NA	NA	NA	NA	NA
Sulfate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	1.0	0.038	0.050	0.057	0.034	0.060	NA	NA	NA	NA	NA
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfur	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	86	120	100	100	110	NA	NA	NA	NA	NA
Fluoride	NE	4.5	1.5	0.76	0.40	0.81	0.38	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	160	220	120	180	200	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
AUS = Radian Analytical Services, Austin  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR HEHECD 6010 ANALYTES

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-129	M4-130	M4-130	M4-130	M4-131	M4-131	M4-132	M4-132	M4-132	M4-133
Date Sampled					01/13/88	01/16/87	10/27/87	10/27/87	10/14/87	10/14/87	01/21/87	05/15/87	07/29/87	10/06/88
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed					02/25/87						02/25/87	06/05/87	08/31/87	10/23/88
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis						FTA	FTA	FTA	FTA	FTA		FTA		
Lab Analysis														
Antimony	NE		NE		ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND
Asenic	NE		NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	NE		NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	NE		NE	0.050	0.013	0.01	0.01	0.01	ND	0.016	0.01	ND	0.01	ND
Copper	NE		NE		ND	ND	ND	ND	0.009	0.009	0.01	0.05	0.01	ND
Lead	NE		NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	NE		NE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	NE		NE		ND	ND	ND	ND	0.04	0.04	ND	ND	ND	ND
Selenium	NE		NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE		NE	0.050	ND	ND	ND	ND	0.01	0.01	ND	ND	ND	ND
Thallium	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorine	NE		NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE		NE	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE		NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

MJ = Monitoring Well

FTA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

Analytical data for M4-137, M4-140 and M4-141 appear under M4-137, M4-140 and M4-141

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-129	M4-130	M4-130	M4-130	M4-131	M4-132	M4-132	M4-132	M4-132	M4-133
Date Sampled			01/13/88	01/16/87	10/27/87	10/27/87	10/14/87	01/21/87	05/15/87	07/29/87	01/22/88	10/06/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				02/25/87				02/25/87	06/05/87	06/31/87		10/23/88
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FDA	FDA	FDA		FDA			
Lab Analysis												
Metres	NE	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS #/GAL  
 M4 - Monitoring Well  
 FDA - First field duplicate analysis  
 FDB - Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHEID 6010 ANALYTES

Parameter	Date Sampled Supplied By Date Analyzed Lab Field Analysis Lab Analysis	D/S Action Level	U.S. EPA Primary MCL	WELL NUMBER												
				M4-134	M4-135	M4-136	M4-136	M4-136	M4-138	M4-139	M4-142	M4-143	M4-1000	M4-1000		
				10/06/88 RADIAN SAC	11/08/88 RADIAN SAC	10/10/88 RADIAN SAC	10/10/88 RADIAN SAC	10/10/88 RADIAN SAC	10/10/88 RADIAN SAC	10/07/88 RADIAN SAC	10/14/88 RADIAN SAC	10/18/88 RADIAN SAC	10/05/88 RADIAN SAC	12/12/85 RADIAN AUS	03/07/86 RADIAN AUS	03/07/86 RADIAN AUS
Antimony		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Asenic		NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004	ND	ND
Barium		NE	NE	ND	0.001	ND	ND	0.002	ND	ND	ND	ND	ND	NA	NA	NA
Beryllium		NE	0.010	ND	ND	ND	ND	0.013	0.009	0.009	0.009	0.012	0.012	ND	0.003	0.003
Cadmium		NE	0.050	0.008	0.012	0.015	0.013	0.015	0.009	0.009	0.009	0.012	0.012	ND	0.009	0.015
Chromium		NE	NE	ND	0.008	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Copper		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Lead		NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	0.003
Manganese		NE	0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002	ND	0.0004	NA
Nickel		NE	NE	ND	ND	ND	ND	ND	0.083	ND	ND	ND	ND	NA	NA	NA
Selenium		NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002
Silver		NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Thallium		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Zinc		NE	NE	0.004	0.022	0.006	0.005	0.005	0.003	0.003	0.003	0.009	0.004	NA	NA	NA
Fluorine		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium		NE	NE	1.58	22	468	468	468	208	498	168	14	14	15	15	15
Chloride		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	16	17
Carbonate		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron		NE	NE	ND	ND	0.015	ND	ND	0.009	0.0258	0.018	0.018	ND	NA	NA	NA
Bicarbonate		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium		NE	NE	9.68	7.0	308	308	308	108	36	108	108	10	8.7	10	10
Sodium		NE	NE	16	16	248	248	248	188	26	14	14	12	13	14	12
Sulfate		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5	4	5
Aluminum		NE	NE	ND	ND	0.082	0.089	0.089	ND	ND	ND	ND	ND	NA	NA	NA
Boron		NE	NE	0.038	0.042	0.062	0.072	0.072	0.035	0.058	0.027	0.027	0.017	NA	NA	NA
Berium		NE	1.0	0.039	0.05	0.090	0.090	0.090	0.045	0.10	0.036	0.036	0.052	0.031	0.035	0.037
Cobalt		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Potassium		NE	NE	ND	ND	4.9	3.3	3.3	ND	ND	ND	ND	ND	NA	NA	NA
Manganese		NE	NE	ND	ND	0.010	0.009	0.009	ND	0.019	ND	ND	ND	NA	NA	NA
Hydrogen		NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Silicon		NE	NE	31	38	36	36	36	36	38	35	35	31	NA	NA	NA
Vanadium		NE	NE	0.021	0.029	0.015	0.016	0.016	0.027	0.021	0.029	0.029	0.025	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METEED 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA		WELL NUMBER											
		Priority	ML	M4-134	M4-135	M4-136	M4-136	M4-138	M4-139	M4-142	M4-143	M4-1000	M4-1000	M4-1000	
Date Sampled				10/06/88	11/08/88	10/10/88	10/10/88	10/07/88	10/14/88	10/19/88	10/05/88	12/12/85	03/07/86	03/07/86	
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Date Analyzed				10/23/88	11/23/88	10/25/88	10/25/88	10/27/88	10/28/88	10/31/88	10/20/88	12/30/85	03/20/86	03/20/86	
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	AUS	AUS	AUS	
Field Analysis															
Lab Analysis															
Total Alkalinity	ME	ME	ME	NA	NA	NA	NA	NA	NA	NA	NA	102	98	98	
Micros	ME	AS	ME	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.88	0.88	
Total Dissolved Solids	ME	ME	ME	NA	NA	NA	NA	NA	NA	NA	NA	200	180	180	

ALL UNITS ARE mg/l

M4 - Monitoring Well

FOA - First field duplicate analysis

FOB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

AUS - Radian Analytical Services, Austin

SAC - Radian Analytical Services, Sacramento

NA - Not analyzed

NE - Not established

AS - Not analyzed

AS - Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER									
	Action	Priority	MW-1001	MW-1001	MW-1002	MW-1002	MW-1002	MW-1003	MW-1003	MW-1004	MW-1004	MW-1005
Date Sampled			12/18/85	04/04/86	11/07/85	04/02/86	04/02/86	12/18/85	03/18/86	12/18/85	03/18/86	12/17/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			01/03/86	04/10/86	11/13/85	04/10/86	04/10/86	01/03/86	04/04/86	01/03/86	04/04/86	01/03/86
Lab			AUS	AUS	AUS	AUS	FDA	AUS	AUS	AUS	AUS	AUS
Field Analysis												
Lab Analysis												
Antimony	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NE	0.050	ND	ND	0.004	0.008	0.008	0.007	0.009	0.008	0.008	0.004
Barium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NE	0.010	ND	ND	ND	0.004	0.004	0.003	0.003	ND	ND	ND
Cadmium	NE	0.050	0.006	ND	0.024	0.020	0.015	0.012	ND	0.007	0.007	0.014
Chromium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NE	0.050	0.002	0.060	ND	0.016	0.017	ND	0.009	0.006	0.006	0.005
Lead	NE	0.002	ND	0.0013	ND	ND	ND	ND	ND	0.0003	ND	ND
Mercury	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NE	0.010	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND
Selenium	NE	0.050	ND	ND	ND	0.013	0.006	ND	ND	ND	ND	ND
Silver	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tellurium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	NE	NE	20	10	11	17	18	12	14	12	12	21
Calcium	NE	NE	11	17	14	20	21	16	13	16	16	32
Chloride	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Monobromate	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	4.1	5.8	6.7	9.2	9.7	7.9	6.9	6.0	6.6	13
Sodium	NE	NE	50	18	14	19	20	16	20	27	31	21
Sulfate	NE	NE	NA	15	0.8	19	22	18	10	62	21	NA
Aluminum	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	1.0	0.053	0.065	0.077	0.098	0.11	0.010	0.029	0.025	0.031	0.019
Cobalt	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	170	92	73	94	90	84	110	100	110	120
Nitrate	NE	45	1.2	0.92	1.4	5.1	5.2	1.5	1.3	3.2	3.0	3.5
Total Dissolved Solids	NE	NE	370	150	240	210	240	220	190	280	220	330

ALL UNITS ARE mg/l  
MW = Monitoring Well  
FDA = First field duplicate analysis  
FDB = Second field duplicate analysis  
RADIAN = Radian Corporation, Sacramento  
AUS = Radian Analytical Services, Austin  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Priority	WELL NUMBER	MA-1005	MA-1005	MA-1005	MA-1005	MA-1005	MA-1005	MA-1009	MA-1009	MA-1009
Data Sampled				03/14/86	04/16/87	01/19/88	07/19/88	07/19/88	10/17/88	10/17/88	12/19/85	03/21/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				03/28/86	06/01/87				10/31/88	10/31/88	01/03/86	04/08/86
Lab				AUS	SAC	SAC	SAC	SAC	SAC	SAC	AUS	AUS
Field Analysis					FDA				FDA	FDA		
Lab Analysis												
Antimony	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	ND
Arsenic	NE	NE	NE	0.050	ND	ND	ND	ND	ND	ND	0.005	0.009
Barium	NE	NE	NE	NA	ND	ND	ND	ND	ND	ND	NA	NA
Beryllium	NE	NE	NE	0.010	0.008	ND	ND	ND	ND	ND	0.006	ND
Cadmium	NE	NE	NE	ND	ND	0.01	0.015	0.009	0.009	0.009	0.048	0.015
Chromium	NE	NE	NE	0.050	0.01	ND	ND	ND	ND	ND	NA	NA
Copper	NE	NE	NE	0.050	ND	ND	ND	ND	ND	ND	ND	0.023
Lead	NE	NE	NE	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	NE	NE	NE	0.002	0.09	0.05	0.056	0.061	0.067	0.059	NA	ND
Nickel	NE	NE	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	NE	NE	NE	0.050	0.27	ND	ND	ND	ND	ND	0.019	ND
Silver	NE	NE	NE	ND	0.06	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	NA	0.004
Zinc	NE	NE	NE	NA	NA	NA	NA	0.009	0.007	0.007	NA	NA
Fluoride	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	23	NA	NA	NA	NA	228	228	13	12
Chloride	NE	NE	NE	22	NA	NA	NA	NA	NA	NA	25	20
Carbonates	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NA	NA	NA	NA	NA	0.10	0.10	NA	NA
Bromine	NE	NE	NE	NA	NA	NA	NA	NA	0.021	0.021	NA	NA
Magnesium	NE	NE	NE	13	NA	NA	NA	NA	148	148	8.3	8.3
Sodium	NE	NE	NE	19	NA	NA	NA	NA	29	29	16	19
Sulfate	NE	NE	NE	12	NA	NA	NA	NA	21	21	7	7
Aluminum	NE	NE	NE	NA	NA	NA	NA	NA	ND	ND	NA	NA
Boron	NE	NE	NE	NA	NA	NA	NA	NA	0.037	0.037	NA	NA
Barium	NE	NE	NE	0.035	NA	NA	NA	NA	0.034	0.034	0.020	0.28
Cobalt	NE	NE	NE	NA	NA	NA	NA	NA	ND	ND	NA	NA
Potassium	NE	NE	NE	NA	NA	NA	NA	NA	ND	ND	NA	NA
Manganese	NE	NE	NE	NA	NA	NA	NA	NA	0.003	0.003	NA	NA
Phosphorus	NE	NE	NE	NA	NA	NA	NA	NA	ND	ND	NA	NA
Silicon	NE	NE	NE	NA	NA	NA	NA	NA	36	36	NA	NA
Vanadium	NE	NE	NE	NA	NA	NA	NA	NA	0.025	0.024	NA	NA
Total Alkalinity	NE	NE	NE	120	NA	NA	NA	NA	NA	83	84	84

ALL UNITS ARE mg/l

MA = Monitoring well  
 FDA = First field duplicate analysis  
 PTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 CES = Canale Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in Laboratory blank - not edited  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 6010 ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1005	M4-1009	M4-1009	M4-1009	M4-1009
			Level	MCL												
Data Sampled					03/14/86	04/16/87	01/19/88	07/19/88	07/19/88	07/19/88	10/17/88	10/17/88	12/19/85	03/21/86	07/26/88	
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	
Data Analyzed					03/28/86	06/02/87					10/31/88	10/31/88	01/03/86	04/08/86		
Lab					AUS	SAC	SAC	SAC	SAC	SAC	SAC	SAC	AUS	AUS		
Field Analysis						FDA					FDA	FDA				
Lab Analysis																
Remarks																
Total Dissolved Solids	NE	45	NE		2.7	NA	NA	NA	NA	NA	NA	NA	3.0	1.5	NA	NA
					310	NA	NA	NA	NA	NA	NA	NA	230	64	NA	NA

ALL UNITS ARE mg/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

AUS - Radian Analytical Services, Austin

CES - Granite Environmental Services

SAC - Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	M4-1010	M4-1011	M4-1011	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012
			Level	MCL									
Date Sampled					04/08/86	04/08/86	04/08/86	03/27/86	11/15/85	03/06/86	07/26/88	07/26/88	07/26/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					04/10/86	04/10/86	04/08/86	04/08/86	11/19/85	03/20/86	08/19/87	07/26/88	10/31/88
Lab					AUS	AUS	AUS	AUS	AUS	AUS	SAC	SAC	SAC
Field Analysis					FDA	FDA						FDA	
Lab Analysis													
Antimony	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	ND	ND	ND
Asenic	NE	NE	NE	NE	0.004	0.003	NA	NA	0.005	NA	ND	ND	ND
Baryllium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	ND	ND	ND
Cadmium	NE	NE	NE	NE	0.010	ND	ND	ND	ND	0.008	0.008	ND	ND
Chromium	NE	NE	NE	NE	0.050	0.008	0.026	0.019	0.038	0.038	ND	ND	ND
Copper	NE	NE	NE	NE	NA	NA	NA	NA	NA	0.007	ND	ND	ND
Lead	NE	NE	NE	NE	0.050	ND	ND	0.021	0.24	0.009	ND	ND	ND
Mercury	NE	NE	NE	NE	0.002	0.0012	ND	ND	0.0002	ND	ND	ND	ND
Nickel	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	ND	ND	ND
Selenium	NE	NE	NE	NE	0.010	ND	ND	0.012	ND	ND	ND	ND	ND
Silver	NE	NE	NE	NE	0.050	ND	ND	NA	NA	0.011	ND	ND	ND
Thallium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	ND	ND	ND
Zinc	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	ND	ND	ND
Fluorene	NE	NE	NE	NE	20	20	14	17	35	37	NA	NA	478
Calcium	NE	NE	NE	NE	7	7	16	12	66	65	NA	NA	NA
Chloride	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonates	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	5.7	5.9	10	8.0	23	24	NA	NA	338
Sodium	NE	NE	NE	NE	13	14	14	13	29	28	NA	NA	35
Sulfate	NE	NE	NE	NE	15	15	4.0	49	46	28	NA	NA	NA
Aluminum	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.014
Berium	NE	NE	NE	NE	0.025	0.022	0.034	0.045	0.099	0.088	NA	NA	0.16
Cobalt	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND
Potassium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND
Manganese	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND
Molybdenum	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND
Silicon	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	35
Vanadium	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.020
Total Alkalinity	NE	NE	NE	NE	100	95	89	86	150	140	NA	NA	NA

ALL UNITS ARE mg/l  
 M4 = Monitoring Well  
 FDA = First field duplicate analysis  
 FDB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 CES = Canale Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 B = Compound detected in Laboratory blank - not edited  
 NE = Not established



MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	IHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1010	M4-1010	M4-1011	M4-1011	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012	M4-1012
Date Sampled			04/08/86	04/08/86	11/05/85	03/27/86	11/15/85	03/06/86	07/27/87	07/26/88	07/26/88	10/17/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/10/86	04/10/86	11/25/85	04/08/86	11/19/85	03/20/86	08/19/87			10/31/88
Lab			AUS	AUS	AUS	AUS	AUS	AUS	SAC	SAC	SAC	SAC
Field Analysis			FDA	FDB						FDA	FDB	
Lab Analysis												
Microns	NE	45	1.7	1.7	1.5	1.3	7.5	7.3	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	170	170	260	750	380	360	NA	NA	NA	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

CES = Canale Environmental Services

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1013	M4-1013	M4-1013	M4-1013	M4-1013	M4-1014	M4-1014	M4-1014	M4-1014	M4-1015
Date Sampled			11/12/85	03/11/86	04/20/87	07/15/88	10/11/88	11/14/85	03/12/86	07/19/88	10/27/88	12/14/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/19/85	03/20/86	05/18/87		10/25/88	11/22/85	03/20/86		11/01/88	12/30/85
Lab			RAS	AUS	SAC	SAC	SAC	AUS	AUS	SAC	SAC	AUS
Field Analysis					PTA						PTA	
Lab Analysis												
Antimony	NE	NE	NA	NA	ND	ND	ND	NA	NA	ND	ND	NA
Arsonic	NE	0.050	0.009	ND	ND	ND	ND	ND	ND	ND	ND	0.005
Beryllium	NE	NE	NA	NA	ND	ND	0.002	NA	NA	ND	ND	NA
Cadmium	NE	0.010	0.003	0.003	ND	ND	0.008	0.030	0.016	ND	ND	ND
Chromium	NE	0.050	0.036	0.014	0.008	0.009	0.008	NA	NA	ND	ND	NA
Copper	NE	NE	NA	NA	0.016	0.007	ND	ND	0.003	ND	ND	0.003
Lead	NE	0.050	0.001	0.003	ND	ND	ND	0.0004	0.0003	ND	ND	ND
Mercury	NE	0.002	0.0002	0.0005	ND	ND	0.16	NA	NA	0.050	0.17	NA
Nickel	NE	NE	NA	NA	0.05	0.16	ND	ND	ND	ND	ND	ND
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	0.031	ND	ND	ND
Silver	NE	0.050	ND	0.009	ND	ND	0.072	NA	NA	ND	ND	NA
Thallium	NE	NE	NA	NA	0.08	0.010	0.003	NA	NA	0.004	0.086	NA
Zinc	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorine	NE	NE	NA	NA	NA	NA	208	18	20	NA	23	14
Calcium	NE	NE	19	20	NA	NA	NA	15	15	NA	NA	8.9
Chloride	NE	NE	13	16	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NA	NA	NA	NA	0.042	NA	NA	NA	0.048	NA
Iron	NE	NE	NA	NA	NA	NA	13	9.9	11	NA	15	8.0
Bromine	NE	NE	12	13	NA	NA	14	15	13	NA	18	11
Magnesium	NE	NE	16	15	NA	NA	NA	8.5	9	NA	NA	5.2
Sodium	NE	NE	11	30	NA	NA	0.082	NA	NA	NA	0.052	NA
Sulfate	NE	NE	NA	NA	NA	NA	0.013	NA	NA	NA	0.043	NA
Aluminum	NE	NE	NA	NA	NA	NA	0.034	0.036	0.043	0.24	0.24	0.012
Boron	NE	NE	0.098	0.032	NA	NA	ND	NA	0.043	0.24	0.24	NA
Barium	NE	1.0	NA	NA	NA	NA	ND	NA	NA	NA	ND	NA
Cobalt	NE	NE	NA	NA	NA	NA	ND	NA	NA	NA	ND	NA
Potassium	NE	NE	NA	NA	NA	NA	ND	NA	NA	NA	ND	NA
Manganese	NE	NE	NA	NA	NA	NA	0.013	NA	0.23	0.23	0.009	NA
Molybdenum	NE	NE	NA	NA	NA	NA	ND	NA	0.008	0.008	0.009	NA
Silicon	NE	NE	NA	NA	NA	NA	33	NA	34	34	31	NA
Vanadium	NE	NE	NA	NA	NA	NA	0.016	NA	NA	0.011	0.010	NA
Total Alkalinity	NE	NE	120	120	NA	NA	NA	110	110	NA	NA	103

ALL UNITS ARE mg/l  
 M4 = Monitoring Well  
 PTA = First field duplicate analysis  
 PDB = Second field duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 B = Co found detected in laboratory blank - not edited  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 6010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER		DATE		ANALYST		DATE		ANALYST		DATE		ANALYST	
	U.S. EPA	Primary	U.S. EPA	Primary	U.S. EPA	Primary	U.S. EPA	Primary	U.S. EPA	Primary	U.S. EPA	Primary	U.S. EPA	Primary	U.S. EPA	Primary
Decon Sampled	NE	AS	1.2	1.6	1.6	240	1.6	240	1.6	240	1.6	240	1.6	240	1.6	240
Decon Analyzed	NE	NE	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Lab	NE	NE	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Field Analysis	NE	NE	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Lab Analysis	NE	NE	200	200	200	200	200	200	200	200	200	200	200	200	200	200

NE = Not analyzed  
 AS = Not analyzed  
 1.2 = Not analyzed  
 1.6 = Not analyzed  
 240 = Not analyzed  
 200 = Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	Date Sampled Sampled By Date Analyzed Lab	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-1015	M4-1016	M4-1016	M4-1016	M4-1017	M4-1018	M4-1018	M4-1018	M4-1018	M4-1018
				03/25/86	11/14/85	03/12/86	07/19/88	11/08/85	03/18/86	11/18/85	03/12/86	10/08/87	04/13/88
				RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
				AUS	AUS	AUS	SAC	AUS	AUS	AUS	AUS	SAC	SAC
Antimony		NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	ND	ND
Asenic		NE	0.050	0.010	ND	ND	ND	ND	0.005	ND	NA	ND	ND
Beryllium		NE	NE	NA	NA	NA	ND	NA	ND	NA	NA	ND	ND
Cadmium		NE	0.010	0.002	ND	0.004	ND	ND	ND	ND	0.007	ND	ND
Chromium		NE	0.050	0.017	0.035	0.016	0.008	0.005	0.011	0.066	0.072	0.01	0.009
Copper		NE	NE	NA	NA	NA	0.006	ND	NA	NA	NA	0.01	ND
Lead		NE	0.050	ND	ND	0.003	ND	ND	0.003	0.021	0.003	ND	ND
Mercury		NE	0.002	ND	0.0003	0.0005	ND	ND	ND	ND	0.0003	ND	ND
Nickel		NE	NE	NA	NA	NA	0.039	NA	ND	NA	ND	0.03	0.029
Selenium		NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	0.007	ND
Silver		NE	0.050	0.003	ND	0.011	ND	ND	0.013	ND	0.017	0.02	0.004
Thallium		NE	NE	NA	NA	NA	0.004	NA	NA	NA	NA	NA	NA
Zinc		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorine		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium		NE	NE	13	18	24	NA	14	18	16	20	NA	NA
Chloride		NE	NE	10	18	20	NA	21	20	24	23	NA	NA
Carbonate		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron		NE	NE	NA	NA	NA	0.0138	NA	NA	NA	NA	NA	NA
Boron		NE	NE	NA	NA	NA	NA	9.2	7.9	10	11	NA	NA
Magnesium		NE	NE	9.8	11	13	NA	16	21	17	15	NA	NA
Sodium		NE	NE	16	18	13	NA	11	7	9.6	7	NA	NA
Sulfate		NE	NE	9	4.1	7	NA	NA	NA	NA	NA	NA	NA
Aluminum		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium		NE	NE	NA	NA	NA	0.014	0.15	0.057	0.020	0.080	NA	NA
Cobalt		NE	1.0	0.026	0.029	0.043	ND	NA	NA	NA	NA	NA	NA
Potassium		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon		NE	NE	NA	NA	NA	35	NA	NA	NA	NA	NA	NA
Vanadium		NE	NE	NA	NA	NA	0.022	NA	NA	NA	NA	NA	NA
Total Alkalinity		NE	NE	99	100	120	NA	94	100	91	110	NA	NA

ALL UNITS ARE mg/l  
MW = Monitoring Well

RADIANT = Radiant Corporation, Sacramento  
AUS = Radiant Analytical Services, Austin  
SAC = Radiant Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
B = Compound detected in laboratory blank - not edited  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DFS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1015	M4-1016	M4-1016	M4-1016	M4-1017	M4-1017	M4-1018	M4-1018	M4-1018	M4-1018
Date Sampled			03/25/86	11/14/85	03/12/86	07/19/88	11/08/85	03/18/86	11/18/85	03/12/86	10/08/87	04/13/88
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/08/86	11/22/85	03/20/86	10/28/88	11/13/85	04/04/86	11/22/85	03/20/86		
Lab			AUS	AUS	AUS	SAC	AUS	AUS	AUS	AUS	SAC	SAC
Field Analysis												
Lab Analysis												
Microbe	NE	45	1.0	4.4	5.3	NA	1.8	2.2	2.0	1.9	NA	NA
Total Dissolved Solids	NE	NE	160	220	200	NA	180	105	210	200	NA	NA

ALL UNITS ARE mg/l

M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

SAC = Radian Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action	Level	Primary	MCL	M4-1018	M4-1018	M4-1018	M4-1019	M4-1019	M4-1019	M4-1019	M4-1020	M4-1020	M4-1021
Date Sampled					07/23/88	10/20/88	10/20/88	12/19/85	03/14/86	01/25/88	01/25/88	11/08/85	03/07/86	01/19/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					11/01/88	11/01/88	11/01/88	01/03/86	03/28/86	10/28/88	10/28/88	11/13/85	03/20/86	
Lab					SAC	SAC	SAC	AUS	AUS	SAC	SAC	AUS	AUS	SAC
Field Analysis					FTB	FTB	FTB			FTB	FTB			
Lab Analysis					FTB	FTB	FTB							
Antimony	NE	NE	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND
Arsenic	NE	NE	NE	NE	ND	ND	ND	0.004	0.004	ND	ND	ND	0.010	ND
Barium	NE	NE	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND
Beryllium	NE	NE	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND
Cadmium	NE	NE	NE	NE	ND	ND	ND	0.25	0.25	ND	ND	0.011	0.003	ND
Chromium	NE	NE	NE	NE	0.013	0.011	0.010	NA	NA	ND	ND	0.019	0.019	ND
Copper	NE	NE	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND
Lead	NE	NE	NE	NE	0.050	ND	ND	0.013	0.013	ND	ND	0.005	0.005	ND
Mercury	NE	NE	NE	NE	0.002	ND	ND	0.0003	0.0003	ND	ND	ND	ND	ND
Nickel	NE	NE	NE	NE	0.022	ND	ND	NA	NA	ND	ND	NA	NA	ND
Selenium	NE	NE	NE	NE	0.010	ND	ND	ND	ND	ND	ND	0.010	0.010	ND
Silver	NE	NE	NE	NE	0.050	ND	ND	NA	NA	ND	ND	NA	NA	ND
Thallium	NE	NE	NE	NE	ND	ND	ND	NA	NA	ND	ND	NA	NA	ND
Zinc	NE	NE	NE	NE	ND	ND	ND	0.009	0.009	ND	ND	NA	NA	ND
Fluoride	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	NE	NA	NA	NA	21	28	NA	NA	13	20	NA
Chloride	NE	NE	NE	NE	NA	NA	NA	30	37	NA	NA	17	16	NA
Carbonate	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NE	NA	NA	NA	0.016	0.016	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NE	NA	NA	NA	5.3	18	NA	NA	8.5	2.4	NA
Sodium	NE	NE	NE	NE	NA	NA	NA	44	22	NA	NA	14	24	NA
Sulfate	NE	NE	NE	NE	NA	NA	NA	42	24	NA	NA	4.1	4.7	NA
Aluminum	NE	NE	NE	NE	NA	NA	NA	0.041	0.041	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NE	NA	NA	NA	0.045	0.045	0.049	0.049	NA	NA	NA
Berium	NE	NE	NE	NE	1.0	0.069	0.071	0.10	0.088	0.11	0.11	0.044	0.036	NA
Cobalt	NE	NE	NE	NE	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA
Potassium	NE	NE	NE	NE	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA
Manganese	NE	NE	NE	NE	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA
Silicon	NE	NE	NE	NE	NA	35	36	NA	NA	35	35	NA	NA	NA
Vanadium	NE	NE	NE	NE	NA	0.028	0.027	NA	NA	0.023	0.023	NA	NA	NA
Total Alkalinity	NE	NE	NE	NE	NA	NA	NA	96	130	NA	NA	86	110	NA

ALL UNITS ARE mg/l

M4 = Monitoring Well

FTB = First field duplicate analysis

FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

AUS = Radian Analytical Services, Austin

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

B = Compound detected in Laboratory blank - not edited

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYSES

Parameter	DES		U.S. EPA		WELL NUMBER		M4-1018		M4-1019		M4-1019		M4-1020		M4-1020		M4-1021	
	Action	Level	Primary	MCL														
Date Sampled					07/23/88	10/20/88	10/20/88	12/19/85	03/14/86	01/25/88	01/25/88	10/12/88	11/08/85	03/07/86	03/07/86	01/19/88		
Sampled By					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT		
Date Analyzed					11/01/88	11/01/88	11/01/88	01/03/86	03/28/86			10/28/88	11/13/85	03/20/86	03/20/86			
Lab					SAC	SAC	SAC	AUS	AUS	SAC	SAC	SAC	AUS	AUS	AUS			
Field Analysis																		
Lab Analysis					FDA	FDA	FDA			FDA	FDA							
Microbe	NE	AS	NA	NA	NA	NA	NA	8.4	10	NA	NA	NA	1.4	1.3	1.3	NA		
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	270	310	NA	NA	NA	230	330	330	NA		

ALL UNITS ARE mg/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FD - Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

AUS = Radiant Analytical Services, Austin

SAC = Radiant Analytical Services, Sacramento

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR MIXED 6010 ANALYSES

Parameter	THIS Action Level	U.S. EPA Priority MCL	WELL NUMBER	M4-1022	M4-1022	M4-1028	M4-1028	M4-1036	M4-1036	M4-1037	M4-1038	M4-1039	M4-136
Date Sampled				10/20/87	10/20/87	10/14/87	10/14/87	01/14/88	01/14/88	08/12/87	08/04/87	08/03/87	01/21/86
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed													02/20/86
Lab				SAC	CES	SAC	CES	SAC	SAC	SAC	SAC	SAC	RAS
Field Analysis													
Lab Analysis													
Antimony	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Asenic	NE	NE	NE	0.005	0.005	ND	ND	ND	ND	0.004	ND	0.005	ND
Baryllium	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	NE	NE	NE	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND
Chromium	NE	NE	NE	0.01	0.01	0.01	0.01	ND	ND	0.03	0.017	0.017	0.014
Copper	NE	NE	NE	ND	ND	ND	ND	ND	ND	0.05	ND	0.009	ND
Lead	NE	NE	NE	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND
Mercury	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0002
Nickel	NE	NE	NE	ND	ND	ND	ND	0.11	0.11	0.04	ND	0.018	ND
Selenium	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	NE	NE	ND	ND	ND	ND	ND	ND	0.007	0.008	0.009	0.006
Thallium	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	NE	NE	NE	ND	ND	ND	ND	ND	ND	0.02	0.019	0.043	0.018
Fluorine	NE	NE	NE	NA	15.6	NA	14.2	NA	NA	NA	NA	NA	NA
Calcium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bicarbonate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NA	10.2	NA	9.4	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	NA	16.2	NA	19.9	NA	NA	NA	NA	NA	NA
Sulfate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NE	NA	NA	NA	0.05	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

ND = Nothing detected

NA = Not analyzed

NE = Not established

RADIAN = Radian Corporation, Sacramento

RAS = Radian Analytical Services

CES = Ceramite Environmental Services

SAC = Radian Analytical Services, Sacramento

MW = Monitoring Well

FA = First field duplicate analysis

FB = Second field duplicate analysis

CH = Off base residential well



728

MASTER LOG OF WELLS SAMPLED FOR HEAVY METAL ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	ML	Q#-148	Q#-157	Q#-158	Q#-334	Q#-335	Q#-340	Q#-544	Q#-544	Q#-544	Q#-654	Q#-829	Q#-868
Date Sampled						01/21/86	03/31/86	03/31/86	07/09/86	07/23/86	07/08/86	10/28/86	10/28/86	10/28/86	08/19/83	10/27/86	08/24/83
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RAS	RADIAN	RAS
Date Analyzed						02/20/86	04/04/86	04/04/86				11/13/86	11/13/86	11/13/86		11/13/86	09/01/83
Lab						RAS	AIS	AIS	SAC	SAC	SAC	ELI	ELI	ELI	RAS	ELI	RAS
Field Analysis																	
Lab Analysis																	
Activity	NE	NE	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Asenic	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	0.004	ND	ND	ND	ND	ND	ND
Baryllium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND
Cadmium	NE	0.010	ND	ND	ND	ND	0.004	0.004	ND	ND	ND	ND	ND	ND	23	ND	ND
Chromium	NE	0.050	ND	ND	ND	0.022	0.027	0.027	0.015	0.015	0.016	ND	ND	ND	15	ND	4
Copper	NE	NE	ND	ND	ND	0.003	0.008	0.008	0.006	0.002	0.002	ND	ND	ND	12	ND	ND
Lead	NE	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	NE	0.002	0.0008	ND	ND	0.0002	0.0002	0.0002	0.009	ND	ND	ND	ND	ND	11	ND	8
Nickel	NE	NE	ND	ND	ND	0.018	0.016	0.016	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	NE	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	ND	ND	ND	0.014	0.067	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	NE	NE	0.15	ND	ND	0.013	0.14	0.14	ND	ND	ND	ND	ND	ND	39	0.01	36
Fluorine	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloride	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbonate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bicarbonate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sulfate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	NE	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Manganese	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silicon	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE mg/l  
 LN = First Laboratory duplicate analysis  
 LTB = Second Laboratory duplicate analysis  
 ON = Off base residential well  
 RADIAN = Radian Corporation, Sacramento  
 AIS = Radian Analytical Services, Austin  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Eureka Laboratories, Inc.  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR NIKROD 6010 ANALYTES

Parameter	DES		U.S. EPA		WELL NUMBER											
	Action	Level	Primary	MCL	CH-148	CH-157	CH-158	CH-334	CH-335	CH-340	CH-544	CH-544	CH-544	CH-654	CH-829	CH-868
Date Sampled					01/21/86	03/31/86	03/31/86	07/09/86	07/23/86	07/08/86	10/28/86	10/28/86	10/28/86	08/19/83	10/27/86	08/24/83
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					02/20/86	04/04/86	04/04/86				11/13/86	11/13/86	11/13/86	09/02/83	11/13/86	09/01/83
Lab					RMS	AIS	AIS	SAC	SAC	SAC	ELI	ELI	ELI	RMS	ELI	RMS
Field Analysis																
Lab Analysis											LDA	LDB				
Total Alkalinity	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA
Hardness	NE	AS	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	ND	NA

ALL UNITS ARE mg/l

LDA = First laboratory duplicate analysis  
LDB = Second laboratory duplicate analysis  
CH = Off base residential well

RADIAN = Radon Corporation, Sacramento  
AIS = Radon Analytical Services, Austin  
RAS = Radon Analytical Services  
SAC = Radon Analytical Services, Sacramento  
ELI = Eureka Laboratories, Inc.

ND = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	Well Number	CM-910	CM-911	CM-911	CM-911	CM-916	CM-917	CM-917	CM-918	CM-920	CM-920
Date Sampled				01/23/86	07/15/85	09/25/85	11/19/85	07/31/83	07/15/85	07/15/85	07/15/85	09/25/85	11/19/85
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	SCHD	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				02/20/86	08/01/85	08/01/85	12/05/85	09/01/83	08/12/83	08/01/85	08/01/85	CAL	12/05/85
Lab				RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS	CAL	RAS
Field Analysis													
Lab Analysis													
Antimony	NE	NE	NE	ND	ND	ND	14	ND	ND	ND	ND	ND	ND
Asenic	NE	0.050	NE	ND	5	ND	6	ND	ND	ND	ND	ND	6
Beryllium	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	NE	0.010	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	NE	0.050	NE	0.007	ND	ND	14	ND	ND	ND	ND	ND	14
Copper	NE	NE	NE	ND	3	ND	ND	ND	ND	ND	ND	ND	17
Lead	NE	0.050	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	NE	0.002	NE	0.0002	0.8	ND	0.7	ND	ND	ND	ND	ND	0.6
Nickel	NE	NE	NE	ND	30	ND	3	ND	ND	ND	ND	ND	5
Selenium	NE	0.010	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	NE	0.050	NE	0.005	ND	ND	ND	43	ND	ND	ND	ND	4
Thallium	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	NE	NE	NE	0.023	ND	ND	44	150	ND	ND	ND	ND	260
Fluorene	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium Chloride	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbonates	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bismuth	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

CM = OEE base residential well

RADIAN = Radian Corporation, Sacramento

SCHD = Sacramento County Health Department

CAL = California Analytical Labs

RAS = Radian Analytical Services

ND = Nothing detected

NA = Not analyzed

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR METHED 6010 ANALYTES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER							
			CM-910	CM-911	CM-911	CM-911	CM-916	CM-917	CM-918	CM-920
Date Sampled			01/23/86	07/15/85	09/25/85	11/19/85	07/31/83	08/25/83	07/15/85	09/25/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	SCHD	RADIAN	RADIAN	RADIAN
Date Analyzed			02/20/86	08/01/85	12/05/85	08/12/83	09/01/83	08/01/85	08/01/85	12/05/85
Lab			RAS	RAS	CAL	RAS	RAS	RAS	RAS	RAS
Field Analysis										
Lab Analysis										
Microbe	NE	45	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

CM = Off base residential well.

RADIAN = Radian Corporation, Sacramento  
 SCHD = Sacramento County Health Department  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services

NA = Not analyzed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	U.S. EPA Action Level	Primary MCL	04-921	04-921	04-924	04-994	WELL NUMBER 04-1045
Date Sampled			09/25/85	11/19/85	10/28/86	07/10/86	03/31/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/05/85	11/13/86	ELI	SAC	04/04/86
Lab			CAL	RAS			AUS
Field Analysis							
Lab Analysis							
Antimony	NE	NE	ND	ND	ND	ND	ND
Arsenic	NE	0.050	ND	5	ND	0.004	ND
Barium	NE	NE	ND	ND	ND	ND	ND
Beryllium	NE	NE	ND	ND	ND	ND	0.004
Cadmium	NE	0.010	ND	ND	ND	0.015	0.026
Chromium	NE	0.050	8	19	ND	0.004	0.003
Copper	NE	NE	ND	3	ND	ND	ND
Lead	NE	0.050	ND	ND	ND	ND	ND
Mercury	NE	0.002	ND	0.6	ND	ND	0.008
Nickel	NE	NE	ND	7	ND	ND	0.021
Selenium	NE	0.010	ND	ND	ND	ND	ND
Silver	NE	0.050	ND	2	ND	ND	0.097
Thallium	NE	NE	ND	ND	ND	0.066	NA
Zinc	NE	NE	20	43	0.03	NA	NA
Fluoride	NE	NE	NA	NA	ND	NA	NA
Calcium	NE	NE	NA	NA	ND	NA	NA
Chloride	NE	NE	NA	NA	ND	NA	NA
Carbonate	NE	NE	NA	NA	ND	NA	NA
Iron	NE	NE	NA	NA	ND	NA	NA
Bicarbonate	NE	NE	NA	NA	ND	NA	NA
Magnesium	NE	NE	NA	NA	ND	NA	NA
Sodium	NE	NE	NA	NA	ND	NA	NA
Sulfate	NE	NE	NA	NA	ND	NA	NA
Aluminum	NE	NE	NA	NA	ND	NA	NA
Boron	NE	NE	NA	NA	ND	NA	NA
Barium	NE	1.0	NA	NA	ND	NA	NA
Cobalt	NE	NE	NA	NA	ND	NA	NA
Potassium	NE	NE	NA	NA	ND	NA	NA
Manganese	NE	NE	NA	NA	ND	NA	NA
Molybdenum	NE	NE	NA	NA	ND	NA	NA
Silicon	NE	NE	NA	NA	ND	NA	NA

ALL UNITS ARE mg/l  
 CH - Off base residential well  
 RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Breake Laboratories, Inc.  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR METHOD 6010 ANALYTES

Parameter	DHS Action Level	U.S. EPA Priority NCL	04-921	04-921	04-924	04-99A	WELL NUMBER
Date Sampled			09/25/85	11/19/85	10/28/86	07/10/86	03/31/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/	12/05/85	11/13/86	SAC	04/04/86
Lab			CAL	RAS	ELI	SAC	AUS
Field Analysis							
Lab Analysis							
Vanadium	NE	NE	NA	NA	NA	NA	NA
Total Alkalinity	NE	NE	NA	NA	ND	NA	NA
Nitrate	NE	45	NA	NA	ND	NA	NA
Total Dissolved Solids	NE	NE	NA	NA	ND	NA	NA

ALL UNITS ARE ug/l

04 = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 AUS = Radian Analytical Services, Austin  
 CAL = California Analytical Labs  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Borek Laboratories, Inc.  
 ND = Nothing detected  
 NA = Not analyzed  
 NE = Not established

**RADIAN**  
CORPORATION

RESULTS FOR METHOD 7196



**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK

## MASTER LOG OF WELLS SAMPLED FOR METHOD 7196 ANALYTES

Parameter	U.S. EPA		WELL NUMBER	DATE		ANALYST	METHOD	CONCENTRATION	UNIT	REMARKS
	Action Level	Primary MCL		MM-36S	MM-44S	MM-44S	MM-115	MM-116	MM-121	MM-1005
Date Sampled										
Sampled By										
Date Analyzed										
Lab										
Field Analysis										
Lab Analysis										
Chromium VI	NE	50	ND	ND	ND	ND	0.034	ND	ND	ND

ALL UNITS ARE mg/l  
 M - Monitoring Well  
 FTA - First field duplicate analysis  
 FDB - Second field duplicate analysis  
 ND = Nothing detected  
 NE = Not established  
 RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento

MASTER LOG OF WELLS SAMPLED FOR METEED 7196 ANALYTES

Parameter	U.S. EPA		Action		Priority		MCL		M4-1013		M4-1014		M4-1016		M4-1018		M4-1019	
	DES	U.S. EPA	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
Date Sampled																		
Sampled By																		
Date Analyzed																		
Lab																		
Field Analysis																		
Lab Analysis																		
Chromium VI																		
ALL UNITS ARE mg/l																		
M4 - Monitoring Well																		
FA - First field duplicate analysis																		
FB - Second field duplicate analysis																		

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NE = Not established

**RADIAN**  
CORPORATION

RESULTS FOR METHOD 9010

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK

## MASTER LOG OF WELLS SAMPLED FOR HEHED 9010 ANALYTES

Parameter	DES	U.S. EPA	Primary	BA-137	BA-137	BA-137	BA-140	BA-141	M4-17D	M4-18D	M4-20D	M4-21D	M4-21S	M4-22D
Action Level														
Date Sampled				07/14/88	07/14/88	07/14/88	07/07/88	07/08/88	10/22/87	10/08/87	10/12/87	10/17/87	10/17/87	10/14/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed				07/26/88	07/26/88	07/26/88	07/12/88	07/12/88						
Lab				CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FIA	FIB								
Lab Analysis														
Total Cytidine	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Amplifiable Cytidine	0.200	0.200	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

BA - Extraction Well

FIA - First field duplicate analysis

FIB - Second field duplicate analysis

Analytical data for BA-63 and BA-69 appear under M4-63 and M4-69

RADIAN - Radian Corporation, Sacramento

CES - Cronicle Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHYL 9010 ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	ML	WELL NUMBER									
			Level			M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-27D	M4-28D	M4-28D
Date Sampled						10/14/87	10/25/87	10/25/87	10/25/87	10/25/87	10/25/87	10/25/87	10/25/87	10/25/87	10/25/87
Sampled by						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed															
Lab						CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis															
Lab Analysis							FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Available cyanide	0.200	0.200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE mg/l

MJ = Monitoring Well

FDA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Canale Environmental Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

743



## MASTER LOG OF WELLS SAMPLED FOR METEOD 9010 ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	M4-415	M4-445	M4-495	M4-495	M4-51	M4-52	M4-53	M4-54	M4-54	M4-55
			Level	M2										
Date Sampled					01/26/88	10/23/87	07/25/88	07/25/88	10/15/87	10/16/87	10/21/87	10/21/87	10/19/87	10/14/87
Date Analyzed					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Total cyanide					0.200	0.200	NO	NO	NO	NO	NO	NO	NO	NO
Ammonia cyanide					0.200	0.200	NA	NO	NO	NO	NO	NO	NO	NO
ALL UNITS ARE mg/l														
MJ - Monitoring Well														
FA - First field duplicate analysis														
FB - Second field duplicate analysis														
LDA - First laboratory duplicate analysis														
LDB - Second laboratory duplicate analysis														

RADIAN - Radian Corporation, Sacramento  
SAC - Radian Analytical Services, Sacramento

NO - Nothing detected  
NA - Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHID 9010 ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	MCL	M4-55	M4-57	M4-58	M4-59	M4-59	M4-59	M4-60	M4-61	M4-61
Dates Sampled						10/14/87	10/12/87	10/13/87	10/09/87	04/08/88	07/06/88	10/25/87	10/13/87	01/19/88
Sampled By						RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Dates Analyzed						02S	SAC	SAC	SAC	02S	SAC	SAC	SAC	SAC
Lab														
Field Analysis														
Lab Analysis											LDA			
Total cyanide	0.200	0.200	0.200	0.200	NA	ND	ND	ND	0.05	ND	ND	ND	ND	ND
Assemble cyanide	0.200	0.200	0.200	0.200	NA	ND	ND	ND	ND	NA	ND	ND	ND	NA

ALL UNITS ARE mg/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LDB - Second Laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

02S - Canonic Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHOD 9010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-61	M4-62	M4-63	M4-67	M4-67	M4-68	M4-69	M4-70	M4-70	M4-70
Date Sampled			04/22/88	04/26/88	10/22/87	10/20/87	10/20/87	10/23/87	10/20/87	10/16/87	10/16/87	10/16/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed												
Lab			SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDA	LDB						LDA	LDB	LDB
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aspirable cyanide	0.200	0.200	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND
ALL UNITS ARE mg/l												
M4 - Monitoring Well												
LDA - First laboratory duplicate analysis												
LDB - Second laboratory duplicate analysis												
RADIAN - Radian Corporation, Sacramento												
CES - Ceres Environmental Services												
SAC - Radian Analytical Services, Sacramento												
ND - Nothing detected												
NA - Not analyzed												

## MASTER LOG OF WELLS SAMPLED FOR METHID 9010 ANALYSES

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-71	M4-72	M4-72	M4-72	M4-72	M4-74	M4-75	M4-76	M4-88	M4-89
Date Sampled			04/22/88	10/20/87	10/20/87	10/20/87	01/08/88	04/11/88	04/21/88	04/28/88	10/24/87	10/21/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed												
Lab			SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis				LDA	LDA	LDB						
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonia cyanide	0.200	0.200	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND

ALL UNITS ARE mg/l

M4 - Monitoring Well

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Central Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHID 9010 ANALYTES

Parameter	DES U.S. EPA		WELL NUMBER									
	Accor.	Primary	M4-90	M4-91	M4-91	M4-91	M4-92	M4-92	M4-100	M4-101	M4-102	M4-103
Date Sampled			10/12/87	10/12/87	10/12/87	01/21/88	10/26/87	10/26/87	10/19/87	10/19/87	10/19/87	10/19/87
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed												
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CES	SAC
Field Analysis			FDA	FDA	FDB	FDB	FDA	FDB				
Lab Analysis												
Total Cyanide	0.200	0.200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Aspirable cyanide	0.200	0.200	NO	NO	NO	NA	NO	NO	NO	NO	NA	NO

ALL UNITS ARE mg/l

MJ = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

CES = Granite Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHOD 9010 ANALYTES

Parameter	DES	U.S. EPA Action Level	Primary MCL	M4-104	M4-106	M4-106	M4-106	M4-106	M4-106	M4-107	M4-108	M4-109
Date Sampled				10/23/87	10/23/87	01/25/88	04/18/88	04/18/88	04/18/88	10/12/87	10/12/87	10/16/87
Date Analyzed				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Total Cyanide	0.200	0.200	ND	ND	0.03	ND	ND	ND	ND	ND	ND	ND
Assemble cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE mg/l

M4 = Monitoring Well

FA = First field duplicate analysis

FB = Second field duplicate analysis

LA = First laboratory duplicate analysis

LB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHID 9010 ANALYSES

Parameter	DES	U.S. EPA	Action	Primary	M4-110	M4-110	M4-110	M4-111	M4-111	M4-112	M4-112	M4-113	M4-114	M4-114	M4-114
			Level	MCL											
Date Sampled					10/21/87	10/21/87	10/21/87	10/19/87	10/19/87	10/19/87	10/19/87	10/19/87	10/15/87	01/07/88	01/07/88
Sampled By					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed															
Lab					CES	SAC	SAC	SAC	SAC	CES	SAC	SAC	SAC	SAC	SAC
Field Analysis															
Lab Analysis						LDA	LDB								
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonia cyanide	0.200	0.200	NA	NA	ND	ND	NA	NA	ND	NA	ND	ND	ND	NA	NA
ALL UNITS ARE mg/l															
M4 - Monitoring Well															
LDA - First laboratory duplicate analysis															
LDB - Second laboratory duplicate analysis															
RADIAN = Radian Corporation, Sacramento															
CES = Camille Environmental Services															
SAC = Radian Analytical Services, Sacramento															
ND = Nothing detected															
NA = Not analyzed															

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 9010 ANALYTES

Parameter	DBS	U.S. EPA	Primary	M4-114	M4-114	M4-115	M4-115	M4-115	M4-116	M4-116	M4-116	M4-116
	Action	Level	MDL									
Date Sampled				04/21/88	04/21/88	01/07/88	01/07/88	04/22/88	07/18/88	10/09/87	01/13/88	04/11/88
Sampled By				RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed												
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA
Lab Analysis												
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aspirable cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE mg/l

ND = Nothing detected

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

CES = Ceramite Environmental Services

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed



MASTER LOG OF WELLS SAMPLED FOR METHYL 9010 ANALYTES

Parameter	DES U.S. EPA		Action		Primary		M4-120		M4-120		M4-120		M4-121		M4-122		M4-128		M4-128		M4-128		M4-128	
	Level		MCL		MCL		MCL		MCL		MCL		MCL		MCL		MCL		MCL		MCL		MCL	
Date Sampled	10/22/87				10/22/87				07/11/88				07/11/88				07/11/88				07/11/88			
Date Analyzed																								
Lab																								
Field Analysis																								
Lab Analysis																								
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Assemble cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALL UNITS ARE mg/l																								
M4 = Monitoring Well																								
FRA = First field duplicate analysis																								
FDB = Second field duplicate analysis																								
RADIAN = Radian Corporation, Sacramento																								
CES = Ceramite Environmental Services																								
SAC = Radian Analytical Services, Sacramento																								
ND = Nothing detected																								
NA = Not analyzed																								

## MASTER LOG OF WELLS SAMPLED FOR METHID 9010 ANALYTES

Parameter	DES		U.S. EPA		WELL NUMBER		M4-128	M4-129	M4-130	M4-131	M4-132
	Action	Level	Primary	MCL							
Data Sampled											
Sampled By											
Date Analyzed											
Lab											
Field Analysis											
Lab Analysis											
Total cyanide	0.200	0.200	ND	ND							
Amenable cyanide	0.200	0.200	ND	ND							

ALL UNITS ARE mg/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

Analytical data for M4-137, M4-140 and M4-141 appear under BA-137, BA-140 and BA-141

RADIANT - Radiant Corporation, Sacramento

SAC - Radiant Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHYL 9010 ANALYTES

Parameter	U.S. EPA Action Level	Primary MCL	M4-132	M4-133	M4-134	M4-135	M4-136	M4-138	M4-139	M4-1000	M4-1000	M4-1000
Date Sampled			10/26/87	07/11/88	07/11/88	07/11/88	07/14/88	07/14/88	07/08/88	10/08/87	01/13/88	04/20/88
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed				07/14/88	07/14/88	07/14/88	07/28/88	07/26/88	07/12/88			
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB									
Lab Analysis												
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	0.10	ND	ND
Ascorbic cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND

ALL UNITS ARE mg/l

M4 - Monitoring Well

FTB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LTB - Second laboratory duplicate analysis

RADIANT - Radian Corporation, Sacramento  
SAC - Radian Analytical Services, Sacramento  
ND - Nothing detected  
NA - Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHOD 9010 ANALYTES

Parameter	DES	U.S. EPA	Action	Priority	M4-1000	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1001	M4-1002	M4-1003	M4-1003	M4-1003
			Level	MOI											
Date Sampled					07/15/88	10/09/87	01/20/88	01/20/88	04/27/88	04/27/88	07/22/88	10/15/87	10/09/87	01/20/88	04/27/88
Sampled by					RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed					07/22/88				04/30/88	04/30/88	08/05/88				
Lab					SAC	SAC	CEC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis															
Lab Analysis															
Total cyanide	0.200	0.200	ND		0.11	ND	ND	ND	ND	ND	ND	ND	0.03	ND	ND
Assemble cyanide	0.200	0.200	ND		ND	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND
ALL UNITS ARE mg/l															
MJ - Monitoring Well															
FDA - First field duplicate analysis															
FDB - Second field duplicate analysis															
LDA - First laboratory duplicate analysis															

RADIAN = Radian Corporation, Sacramento  
 CEC = Central Environmental Services  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed

MASTER LOG OF WELLS SAMPLED FOR METRO 9010 ANALYTES

Parameter	DES	U.S. EPA	Action	Primary	Well Number	M4-1004	M4-1004	M4-1004	M4-1004	M4-1004	M4-1004	M4-1005	M4-1005
	Level	MCL											
Date Sampled													
Sampled By													
Date Analyzed													
Lab													
Field Analysis													
Lab Analysis													
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Assemble cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE mg/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

LDA - First laboratory duplicate analysis

LDB - Second laboratory duplicate analysis

RADIAN - Radian Corporation, Sacramento

CES - Central Environmental Services

SAC - Radian Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR PERIOD 9010 ANALYTES

Parameter	YES		U.S. EPA		WELL NUMBER									
	Action Level	Primary	M4-1009	M4-1010	M4-1011	M4-1011	M4-1012	M4-1013	M4-1014	M4-1014	M4-1015	M4-1016	M4-1017	
Date Sampled			10/15/87	10/15/87	10/22/87	10/22/87	10/26/87	10/22/87	10/26/87	04/27/88	10/17/87	10/16/87	10/17/87	
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	
Date Analyzed														
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	
Field Analysis														
Lab Analysis					LDA	LDB								
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Assemble cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

WELL UNITS ARE mg/l

ALL UNITS ARE mg/l

MJ = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIANT = RadLan Corporation, Sacramento

SAC = RadLan Analytical Services, Sacramento

ND = Nothing detected

## MASTER LOG OF WELLS SAMPLED FOR METHO 9010 ANALYSES

Parameter	U.S. EPA		WELL NUMBER		M4-1020		M4-1020		M4-1020		M4-1021		M4-1021		M4-1022	
	Action	Primary	M4-1018	M4-1019	M4-1020	M4-1020	M4-1020	M4-1020	M4-1020	M4-1020	M4-1021	M4-1021	M4-1021	M4-1021	M4-1022	M4-1022
Date Sampled			10/08/87	10/21/87	10/08/87	01/13/88	01/13/88	01/13/88	04/18/88	07/15/88	10/27/87	10/27/87	10/27/87	10/27/87	10/20/87	10/20/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed																
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis																
Lab Analysis																
Total Cyanide	0.200	0.200	ND	ND	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonia Cyanide	0.200	0.200	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALL UNITS ARE mg/l																
M4 - Monitoring Well																
FDA - First field duplicate analysis																
FDB - Second field duplicate analysis																
LDA - First laboratory duplicate analysis																
LDB - Second laboratory duplicate analysis																

RADIAN = Radian Corporation, Sacramento  
 CES = Central Environmental Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed

## MASTER LOG OF WELLS SAMPLED FOR METHOD 9010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER									
	DFP	Action	U.S. EPA	M4-1022	M4-1023	M4-1024	M4-1025	M4-1026	M4-1027	M4-1028	M4-1029	M4-1030
	Level	Primary	ML									
Date Sampled				10/20/87	10/22/87	10/15/87	10/15/87	10/14/87	10/14/87	10/14/87	10/12/87	10/12/87
Sampled By				RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed												
Lab				CSS	SAC	SAC	SAC	SAC	SAC	CSS	SAC	SAC
Field Analysis												
Lab Analysis												LDA
Total cyanide	0.200	0.200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Ammonia cyanide	0.200	0.200	NA	NO	NO	NO	NO	NO	NO	NA	NO	NO

ALL UNITS ARE mg/l

MJ = Monitoring Well

FD = First field duplicate analysis

FD = Second field duplicate analysis

LDA = First laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

CSS = Carmite Environmental Services

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed



Parameter	DES U.S. EPA		WELL MEMBER									
	Action	Primary	M4-1030	M4-1031	M4-1032	M4-1033	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034	M4-1034
	Level	ML										
Dose Supplied			10/12/87	10/12/87	10/09/87	10/13/87	10/13/87	10/13/87	10/13/87	01/12/88	01/12/88	04/15/88
Dose Analyzed			RADIUM	RADIUM	RADIUM	RADIUM	RADIUM	RADIUM	RADIUM	RADIUM	RADIUM	RADIUM
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis			LDB	FEB	FEB	FEB	FEB	FEB	FEB	FEB	FEB	FEB
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Amenable cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE mg/l

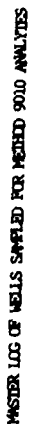
M4 = Monitoring Well

FEB = Field Analysis

RADIUM = Radium Concentration

ALL UNITS ARE  $\mu\text{g/l}$   
 MW = Monitoring Well  
 F0A = First field duplicate analysis  
 F0B = Second field duplicate analysis  
 L0A = First laboratory duplicate analysis  
 L0B = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed



Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1035	M4-1036	M4-1036	M4-1037	M4-1038	M4-1039	M4-1040	M4-1041	M4-1041	
Date Sampled			10/13/87	10/21/87	10/21/87	10/13/87	04/19/88	10/13/87	10/13/87	04/18/88	10/20/87	10/14/87
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed							04/20/88			04/20/88		
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	CES
Field Analysis				FDA	FTB							
Lab Analysis												
Total cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Assemble cyanide	0.200	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA

ALL LIMITS ARE mg/l

M4 = Monitoring Well  
PDA = First field duplicate analysis  
FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
CES = Canine Environmental Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed

MASTER LOG OF WELLS SAMPLED FOR METHED 9010 ANALYTES

Parameter	U.S. EPA		WELL NUMBER
	Action	Primary	
	Loc. 1	LOC	
Date Sampled		10/14/87	M4-1043
Date Analyzed		10/14/87	M4-1042
Lab		RADIAN	M4-1042
Field Analysis		SAC	M4-1042
Lab Analysis		LDA	M4-1042
Total cyanide	0.200	0.200	ND
Assemble cyanide	0.200	0.200	ND

ALL UNITS ARE mg/l

M4 = Monitoring Well

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

**RADIAN**  
CORPORATION

RESULTS FOR RADIOACTIVITY

**B** 763

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK

Parameter	IHS Action Level	U.S. EPA Priority Level	WELL NUMBER					
			04-340	04-341	04-363	04-365	04-913	04-916
Date Sampled			08/24/83	08/24/83	08/24/83	08/24/83		08/25/83
Sampled By								
Date Analyzed								
Lab			RAS	RAS		RAS	RAS	RAS
Field Analysis								
Lab Analysis								
Alpha	NE	NE	1.54/-0.6	2.64/-0.83	1.04/-0.62	3.74/-1.0	1.84/-0.7	1.04/-0.6
Beta	NE	NE	4.34/-1.2	ND	ND	5.14/-1.9	ND	4.54/-1.1

Off = Off base residential wall

OW - Off base residential well

Quotient = 61.47

Cannot open file: tmp1.ltb

Not an accessible table name: D

**RAS = Radian Analytical Services**

ND = Nothing detected

NU = Nothing detected  
NE = Not established

RESULTS FOR HERBICIDES

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK



## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	U.S. EPA		WELL NUMBER										
	Action Level	Primary MCL	BM-1	BM-2	BM-8	BM-8	BM-10	BM-11	BM-12	BM-13	BM-17	BM-17	BM-18
Date Sampled			02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82	02/05/82
Sampled By			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed					10/05/83	10/05/83	10/05/83					10/05/83	
Lab			ES	ES	RAS	ES	ES	ES	ES	ES	ES	RAS	ES
Field Analysis													
Lab Analysis													
2,4-D	100	100	0.04	0.04	ND	0.06	ND	0.02	0.03	0.006	ND	ND	ND
2,4,5-TP (silvex)	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-T	NE	NE	ND	0.18	NA	0.01	NA	0.004	0.05	0.006	NA	NA	0.003

ALL UNITS ARE ug/l

BM = Base production well

ES = Engineering Sciences, Inc.

RAS = Radon Analytical Services

ND = Nothing detected

NA = Not analyzed

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Priority	BM-20	BM-28	BM-29	WM-4	WM-4	WM-6	WM-6	WM-7	WM-7	
Date Sampled												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
2,4-D	100	100	ND	ND	0.008	0.01	0.377	ND	0.02	ND	0.03	
2,4,5-TP (allene)	10	10	ND	ND	ND	0.06	ND	ND	ND	ND	ND	
2,4,5-T	NE	NE	NA	NA	0.002	0.002	ND	ND	0.006	ND	ND	

ALL UNITS ARE ug/l

ALL UNITS .02 ug/l  
M - Monitoring Well  
BM - Base production well

RADIUM = Radian Corporation, Sacramento  
ES = Engineering Sciences, Inc.  
RAS = Radian Analytical Services  
ND = Nothing detected  
NA = Not analyzed  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DES Action Level	U.S. EPA Priority MCL	M4-8	M4-9	M4-9	M4-9	M4-10	M4-10	M4-10	M4-11	M4-11	M4-12	M4-12	M4-13
Date Sampled			03/31/82	03/31/82	04/28/82	09/30/84	03/30/82	03/30/82	09/18/84	03/30/82	09/19/84	04/29/82	09/20/84	03/30/82
Sampled By			ES	ES	ES	RADIAN	ES	ES	RADIAN	ES	RADIAN	ES	RADIAN	ES
Date Analyzed						10/17/84			09/28/84		09/28/84		10/14/84	
Lab			ES	ES	ES	RAS	ES	ES	RAS	ES	RAS	ES	RAS	ES
Field Analysis														
Lab Analysis														
2,4-D	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP (allven)	10	10	ND	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND
2,4,5-F	NE	NE	0.008	0.003	0.007	ND	ND	ND	ND	ND	ND	0.004	ND	0.009

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Sciences, Inc.  
RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-14	M4-14	M4-15	M4-15	M4-16D	M4-16D	M4-16D	M4-16S	M4-16S	M4-17D
Date Sampled			03/30/82	09/20/84	04/29/82	09/18/84	06/16/82	08/17/82	09/24/84	06/16/82	08/17/82	09/26/84
Sampled By			ES	RADIAN	ES	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN
Date Analyzed				10/14/84		09/28/84		08/26/82	10/14/84		08/27/82	10/17/84
Lab			ES	RAS	ES	RAS	ES	ES	RAS	ES	ES	RAS
Field Analysis												
Lab Analysis												
2,4-D	100	100	ND	ND	0.02	ND	0.082	ND	ND	0.058	ND	ND
2,4,5-TP (all vec)	10	10	ND	ND	0.36	ND	0.080	ND	ND	0.094	ND	ND
2,4,5-T	NE	NE	0.005	ND	ND	ND	0.037	ND	ND	0.020	ND	0.032

ALL UNITS ARE ug/l  
ND = Nothing detected

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Sciences, Inc.  
RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DPS Action Level	U.S. EPA Priority ML	WELL NUMBER									
			M4-170	M4-170	M4-170	M4-17S	M4-17S	M4-17S	M4-17S	M4-18D	M4-18D	M4-18S
Date Sampled			08/17/82	09/26/84	05/30/85	06/16/82	08/17/82	09/13/84	06/15/82	09/25/84	09/25/84	06/15/82
Sampled By			ES	RADIANT	RADIANT	ES	ES	RADIANT	ES	RADIANT	RADIANT	ES
Date Analyzed			08/26/82	10/17/84	06/20/85			09/28/84		10/17/84	10/15/84	
Lab			ES	RAS	ANLABS	ES	ES	RAS	ES	RAS	RAS	ES
Field Analysis										FDA	FDB	
Lab Analysis												
2,4-D	100	100	ND	ND	ND	0.114	ND	ND	0.122	ND	ND	0.138
2,4,5-TP (allvmt)	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-T	ME	ME	ND	0.3	ND	0.031	ND	ND	0.022	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

ES = Engineering Science, Inc.

RAS = Radiant Analytical Services

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FORWARD 1982-OCTOBER 1984)

Parameter	U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-105	M4-106	M4-107	M4-108	M4-109	M4-110	M4-111	M4-112	M4-113	M4-200
Data Sampled			08/16/82	09/29/84	04/25/82	08/16/82	09/13/84	04/28/82	08/16/82	09/14/84	04/28/82	08/11/82
Sampled By			ES	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	ES	ES
Data Analyzed			ES	10/17/84	ES	ES	09/27/84	ES	08/31/82	09/27/84	ES	08/26/82
Lab				RAS			RAS		ES	RAS		ES
Field Analysis												
Lab Analysis												
2,4-D	100	100	ND	ND	0.008	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP (allwm)	10	10	ND	ND	0.003	ND	ND	ND	ND	ND	ND	ND
2,4,5-T	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
ND = Nothing detected  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	U.S. EPA		WELL NUMBER		M4-20S		M4-21D		M4-21S		M4-21S		M4-21S		M4-22D	
	Action Level	Primary MCL														
Date Sampled			05/25/82	08/11/82	09/30/84	06/15/82	08/13/82	09/17/84	09/17/84	06/15/82	08/13/82	09/17/84	09/17/84	04/28/82		
Sampled by			ES	ES	RADIAN	ES	ES	RADIAN	RADIAN	ES	ES	RADIAN	RADIAN	ES		
Date Analyzed					10/17/84		08/26/82	09/28/84	09/27/84		08/27/82	09/27/84	09/27/84			
Lab			ES	ES	RAS	ES	ES	RAS	RAS		ES	RAS	RAS	ES		
Field Analysis								FDA	FDB							
Lab Analysis																
2,4-D	100	100	ND	0.13	ND	0.175	ND	ND	ND	0.122	ND	ND	ND	ND		
2,4,5-TP (allVom)	10	10	ND	ND	ND	0.42	ND	ND	ND	ND	ND	ND	ND	ND		
2,4,5-T	ME	ME	0.003	ND	ND	0.044	ND	ND	ND	0.087	ND	ND	ND	ND		

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FDB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

ES - Environmental Sciences, Inc.

RAS - Radian Analytical Services

ND - Nothing detected

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-22D	M4-22D	M4-22D	M4-22S	M4-22S	M4-22S	M4-22D	M4-22D	M4-22D	M4-22S
Date Sampled			08/13/82	09/20/84	06/04/82	08/13/82	09/21/84	04/28/82	08/13/82	09/26/84	06/10/85	04/28/82
Sampled By			ES	RADIUM	ES	ES	RADIUM	ES	ES	RADIUM	RADIUM	ES
Date Analyzed			08/27/82	10/14/84	10/14/84	08/27/82	10/14/84		08/27/82	10/17/84	06/28/85	
Lab			ES	RMS	RMS	ES	RMS		ES	RMS	ANALYSIS	ES
Field Analysis				FOA								
Lab Analysis												
2,4-D	100	100	ND	0.1	ND	0.026	ND	ND	ND	ND	ND	ND
2,4,5-TP (allvent)	10	10	ND	0.1	ND	0.031	ND	ND	ND	ND	ND	ND
2,4,5-F	NE	NE	ND	0.07	ND	0.003	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 ND = Nothing detected  
 NE = Not established  
 RADIUM = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 RMS = Radian Analytical Services



MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER							
			M4-23S	M4-24D	M4-24D	M4-24S	M4-24S	M4-24S	M4-25D	M4-25D
Data Sampled			08/13/82	09/29/84	04/28/82	08/12/82	09/27/84	06/15/82	08/12/82	09/25/84
Sampled By			ES	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN
Date Analyzed			08/31/82	10/17/84		08/27/82	10/17/84		08/27/82	10/15/84
Lab			ES	RAS	ES	ES	RAS	ES	ES	RAS
Field Analysis										
Lab Analysis										
2,4-D	100	100	ND	ND	ND	ND	ND	0.12	ND	ND
2,4,5-TP (allvent)	10	10	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-T	NE	NE	ND	0.60	0.005	0.027	ND	0.025	0.004	ND

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN - Radian Corporation, Sacramento  
ES - Engineering Sciences, Inc.  
RAS - Radian Analytical Services

ND - Nothing detected  
NE - Not established

MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DHS Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-25S	M4-25S	M4-25S	M4-26D	M4-26D	M4-26D	M4-26D	M4-26S	M4-26S	M4-26S
Date Sampled			06/16/82	08/12/82	09/29/84	04/28/82	08/11/82	08/11/82	09/27/84	06/16/82	08/11/82	09/29/84
Sampled By			ES	ES	RADIAN	ES	ES	ES	RADIAN	ES	ES	RADIAN
Date Analyzed				08/30/82	10/17/84				10/16/84			10/17/84
Lab			ES	ES	RAS	ES	ES	ES	RAS	ES	ES	RAS
Field Analysis												
Lab Analysis												
2,4-D	100	100	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND
2,4,5-TP (silvex)	10	10	ND	ND	ND	ND	ND	ND	ND	0.004	ND	ND
2,4,5-T	NE	NE	ND	ND	ND	0.004	0.004	0.038	ND	0.002	0.002	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services

ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	Date Sampled Sampled By Date Analyzed Lab Field Analysis Lab Analysis	U.S. EPA Action Level	U.S. EPA Priority MCL	WELL NUMBER							
				M4-27D	M4-27D	M4-27D	M4-27S	M4-28D	M4-28D	M4-28D	M4-29D
				04/28/82	08/12/82	10/01/84	08/12/82	09/12/84	06/16/82	08/17/82	09/26/84
				ES	ES	RADIANT	ES	RADIANT	ES	ES	ES
				ES	ES	RADIANT	ES	RADIANT	ES	ES	ES
				ES	ES	RAS	ES	RAS	ES	ES	ES
				ES	ES	FTD	ES	ES	ES	ES	ES
2,4-D		100	100	0.24	ND	ND	ND	ND	0.246	ND	ND
2,4,5-TP (allene)		10	10	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-T		NE	NE	ND	0.003	ND	0.002	ND	0.022	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

ES = First field duplicate analysis

FTD = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

ES = Radiant Science, Inc.

RAS = Radiant Analytical Services

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-29D	M4-29D	M4-29D	M4-30S	M4-30S	M4-30S	M4-31S	M4-31S	M4-31S	M4-31S
Data Sampled			08/16/82	10/01/84	10/01/84	08/17/82	06/16/82	09/18/84	06/15/82	09/25/84	09/25/84	09/25/84
Sampled By			ES	RADIANT	RADIANT	ES	ES	RADIANT	ES	RADIANT	RADIANT	RADIANT
Data Analyzed			ES	10/26/84	10/26/84	09/01/82	08/30/82	09/28/84	08/17/82	10/14/84	10/14/84	10/14/84
Lab			ES	RAS	RAS	ES	ES	RAS	ES	RAS	RAS	RAS
Field Analysis				FDA	FDA							
Lab Analysis												
2,4-D	100	100	ND	ND	ND	ND	0.063	ND	ND	ND	ND	ND
2,4,5-TP (allvms)	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-T	NE	NE	ND	ND	ND	ND	0.024	ND	0.003	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

ES = Engineering Sciences, Inc.

RAS = Radiant Analytical Services

ND = Nothing detected

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DTS Action Level	U.S. EPA Priority	WELL NUMBER									
			M4-33S	M4-33S	M4-36S	M4-36S	M4-36S	M4-37	M4-38D	M4-40S	M4-40S	M4-41S
Data Supplied			09/29/82	09/18/84	09/29/82	09/17/84	09/28/82	09/27/82	09/14/84	09/29/82	09/30/84	09/14/82
ES			ES	RADIAN	ES	RADIAN	ES	ES	RADIAN	ES	RADIAN	ES
Data Analyzed			10/17/82	09/28/84	10/17/82	09/28/84	10/02/82	10/17/82	09/27/84	10/17/82	10/17/84	10/17/82
Lab			ES	RAS	ES	RAS	ES	ES	RAS	ES	RAS	ES
Field Analysis												
Lab Analysis												
2,4-D	100	100	0.134	ND	0.56	ND	ND	ND	0.5	ND	ND	ND
2,4,5-TP (allene)	10	10	ND	ND	ND	ND	ND	ND	ND	0.1	0.1	ND
2,4,5-T	NE	NE	ND	ND	ND	ND	0.004	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services  
ND = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-41S	M4-42S	M4-43S	M4-43S	M4-44S	M4-44S	M4-45S	M4-45S	M4-46S	M4-46S
Date Sampled			09/24/84	09/27/82	09/14/82	09/13/84	09/13/82	09/21/84	09/14/82	09/19/84	09/21/82	09/29/84
Sampled By			RADIAN	RADIAN	ES	RADIAN	ES	RADIAN	ES	RADIAN	ES	RADIAN
Date Analyzed			10/14/84	10/18/82	10/18/82	09/28/84	10/18/82	10/14/84	11/01/82	09/28/84	10/18/82	10/17/84
Lab			RAS	ES	ES	RAS	ES	RAS	ES	RAS	ES	RAS
Field Analysis												
Lab Analysis												
2,4-D	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP (allven)	10	10	0.2	0.031	0.030	ND	ND	ND	0.051	ND	ND	ND
2,4,5-T	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services  
ND = Nothing detected  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR HERBICIDES (FEBRUARY 1982-OCTOBER 1984)

Parameter	DES		U.S. EPA		M4-47S	M4-47S	M4-49	CM-654	WELL NUMBER		CM-908	CM-913	CM-916	CM-917	CM-917
	Action Level	Priority MCL	CM-868	CM-868											
Date Sampled			09/29/82	ES	10/01/84	ES	09/29/82	08/19/83	08/24/83	07/31/83			08/25/83	07/31/83	08/25/83
Sampled By			RADIANT												
Date Analyzed			11/02/82	ES	10/17/84	ES	10/18/82	09/28/83	10/05/83	09/28/83		09/28/83	09/28/83		09/28/83
Lab			ES		RAS		ES	RAS	RAS	RAS		RAS	RAS	RAS	RAS
Field Analysis															
Lab Analysis															
2,4-D	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-TP (all use)	10	10	0.196	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-T	NE	NE	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

CM = Off base residential well

RADIANT = Radiant Corporation, Sacramento

ES = Engineering Science, Inc.

RAS = Radiant Analytical Services

ND = Nothing detected

NA = Not analyzed

NE = Not established

RESULTS FOR PESTICIDES



**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Pesticide	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			BM-1	BM-2	BM-8	BM-8	BM-10	BM-10	BM-10	BM-10	BM-11	BM-12
Date Sampled			02/05/82	02/05/82	02/05/82	02/05/82	12/02/85	03/26/86	03/26/86	12/04/86	02/05/82	02/05/82
Sampled By			ES	ES	ES	ES	RADIUM	RADIUM	RADIUM	RADIUM	ES	ES
Date Analyzed					10/05/83		12/17/85	04/03/86	04/04/86	12/17/86		
Lab			ES	ES	RAS		SAC	SAC	SAC	SAC	ES	ES
Field Analysis												
Lab Analysis												
Aldrin	(100).05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(100).05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1272	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin heptone	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

U.S. EPA Action Level

Primary MCL

WELL NUMBER

BM-1 BM-2 BM-8 BM-8 BM-10 BM-10 BM-10 BM-10 BM-11 BM-12

Date Sampled

Sampled By

Date Analyzed

Lab

Field Analysis

Lab Analysis

ES = Nothing detected

NE = Not analyzed

LIQ = Limit of quantitation

NE = Not established

RADIUM = Radian Corporation, Sacramento

ES = Engineering Sciences, Inc.

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

U.S. EPA Action Level

Primary MCL

WELL NUMBER

BM-1 BM-2 BM-8 BM-8 BM-10 BM-10 BM-10 BM-10 BM-11 BM-12

Date Sampled

Sampled By

Date Analyzed

Lab

Field Analysis

Lab Analysis

ES = Nothing detected

NE = Not analyzed

LIQ = Limit of quantitation

NE = Not established

RADIUM = Radian Corporation, Sacramento

ES = Engineering Sciences, Inc.

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

[illegible]

**ALL UNITS ARE 1/1**

FD1 = First field duplicate analysis  
FD2 = Second field duplicate analysis  
BW = Base production well

RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES	U.S. EPA	Primary	M4-6	M4-7	M4-8	M4-9	M4-9	M4-10	M4-10
Action Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
Date Sampled	03/30/82	10/01/84	03/17/82	03/29/82	09/21/84	03/31/82	04/28/82	09/30/84	03/30/82	09/18/84
Sampled By	ES	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	ES	RADIAN
Date Analyzed	ES	10/23/84	ES	ES	10/15/84	ES	ES	10/23/84	ES	10/09/84
Lab	ES	RAS	ES	ES	RAS	ES	ES	RAS	ES	RAS
Field Analysis										
Lab Analysis										
Aldrin	(LOQ) .05 NE	ND	0.26	1.03	0.016	ND	0.15	ND	1.80	ND
DDT	(LOQ) .05 NE	ND	ND	ND	ND	ND	ND	ND	ND	0.007
Alpha chlordane	0.055 NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE	ND	ND	ND	0.039	ND	ND	ND	ND	ND
Alpha endosulfan	NE	ND	ND	ND	ND	ND	ND	ND	ND	0.039
Beta endosulfan	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE	ND	ND	ND	0.036	ND	ND	ND	ND	ND
Endrin aldehyde	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE	ND	ND	ND	ND	0.04	ND	ND	ND	0.006
Heptachlor epoxide	0.10 NE	ND	ND	ND	ND	ND	0.08	ND	ND	0.005
Alpha-BHC	0.700 NE	ND	ND	ND	ND	ND	0.08	ND	ND	ND
Beta-BHC	0.300 NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE	ND	ND	ND	ND	0.015	0.12	ND	ND	ND
Delta-BHC	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-126	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-124	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-121	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-122	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-124	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-126	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-106	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-106	5 NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-106	100 NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-106	0.055 NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-106	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
M4 - Monitoring Well

RADIAN - Radian Corporation, Sacramento  
ES - Engineering Sciences, Inc.  
RAS - Radian Analytical Services

ND - Nothing detected  
NA - Not analyzed  
LOQ - Limit of quantitation  
NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DWS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-11	M4-12	M4-12	M4-13	M4-14	M4-15	M4-15	M4-16D	M4-16D	
Date Sampled			03/30/82	09/19/84	04/29/82	03/30/82	09/20/84	04/29/82	09/20/84	06/16/82	08/17/82	
Sampled By			ES	RADIUM	ES	ES	RADIUM	ES	RADIUM	ES	ES	
Date Analyzed			10/09/84	10/09/84			10/10/84		10/09/84		08/26/82	
Lab			ES	RMS	ES	ES	RMS	ES	RMS	ES	ES	
Field Analysis												
Lab Analysis												
Aldrin	(0.00) .05 NE		ND	ND	ND	ND	ND	6.97	ND	0.005	ND	
Dieldrin	(0.00) .05 NE		ND	ND	ND	ND	ND	ND	ND	0.024	ND	
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDD	NE		ND	0.34	ND	ND	ND	ND	ND	ND	ND	
Alpha endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	0.046	ND	
Beta endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endosulfen sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endrin	0.200		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endrin aldehydes	NE		ND	1.76	ND	ND	ND	ND	ND	ND	ND	
Heptachlor	0.020 NE		ND	0.56	ND	ND	ND	ND	ND	0.008	ND	
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	0.42	ND	
Gamma-BHC	4.0		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1222	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Toxaphene	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gamma chlordane	0.055 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	
Endrin heptachlor	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIUM = Radian Corporation, Sacramento  
ES = Engineering Sciences, Inc.  
RAS = Radian Analytical Services  
ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA		WELL NUMBER		M4-165		M4-170		M4-175		M4-180	
	Action	Level	Primary	M4-160	M4-165	M4-166	M4-167	M4-168	M4-169	M4-170	M4-171	M4-172
Date Sampled				09/24/84	06/16/82	08/17/82	09/26/84	06/16/82	08/17/82	08/16/82	09/13/84	06/15/82
Sampled By				RADIAN	ES	ES	RADIAN	ES	ES	ES	RADIAN	ES
Date Analyzed				10/10/84	ES	ES	10/10/84	ES	ES	ES	10/03/84	ES
Lab				RAS	ES	ES	RAS	ES	ES	ES	RAS	ES
Field Analysis												
Lab Analysis												
Aldrin	(100).05	NE		ND	0.503	ND	ND	ND	ND	0.112	ND	0.01
Dieldrin	(100).05	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE	NE		ND	ND	ND	0.35	ND	ND	ND	ND	ND
Beta endosulfan	NE	NE		ND	ND	ND	0.24	ND	ND	ND	ND	ND
Endosulfan sulfate	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020	NE		ND	ND	0.015	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10	NE		ND	ND	ND	0.022	ND	ND	ND	ND	0.017
Alpha-BHC	0.700	NE		ND	ND	0.024	ND	ND	ND	ND	0.006	ND
Beta-BHC	0.300	NE		ND	0.142	0.009	0.10	ND	ND	ND	ND	0.005
Gamma-BHC	4	NE		ND	ND	0.020	ND	ND	ND	ND	ND	ND
Delta-BHC	NE	NE		ND	ND	0.025	ND	ND	ND	ND	ND	ND
PCB-1262	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	5	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	100	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.055	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptachlor	NE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services

ALL UNITS ARE ug/l  
M4 = Monitoring Well

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-18D	M4-18D	M4-18D	M4-18D	M4-18S	M4-18S	M4-18S	M4-19D	M4-19D	M4-19D
Date Sampled			09/25/84	09/25/84	08/16/85	03/28/86	12/03/86	06/15/82	08/16/82	04/29/84	08/16/82	08/09/83
Sampled By			RADIAN	RADIAN	ES	RADIAN	RADIAN	ES	ES	ES	ES	ES
Date Analyzed			10/14/84	10/10/84	08/26/85	04/08/86	12/12/86			10/22/84		09/28/83
Lab			RAS	RAS	ES	SAC	SAC	ES	ES	RAS	ES	RAS
Field Analysis			FTB	FTB								
Lab Analysis												
Aldrin	(LOQ) 0.05 NE	NE	NO	NO	NO	NO	NO	0.052	NO	NO	NO	NO
Dieldrin	(LOQ) 0.05 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE	NE	0.015	0.021	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE	NE	0.033	0.018	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE	NE	0.089	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfan sulfate	NE	NE	0.200	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	0.020 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.10 NE	NE	0.011	0.008	NO	NO	NO	0.027	0.032	NO	NO	NO
Heptachlor epoxide	0.700 NE	NE	0.065	0.065	NO	NO	NO	0.036	0.036	NO	NO	NO
Alpha-BHC	0.300 NE	NE	NO	0.022	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	4.0 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-126	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-125	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-122	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-124	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-126	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Carbo chlorane	0.055 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptene	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

MD = Monitoring Well  
 PD = First field duplicate analysis  
 FTB = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Sciences, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	Primary M/L	WELL NUMBER									
			M4-190	M4-195	M4-195	M4-195	M4-195	M4-195	M4-200	M4-200	M4-200	M4-200
Date Sampled			09/13/84	04/28/82	08/16/82	08/09/83	09/14/84	03/13/86	10/16/86	04/28/82	08/11/82	09/19/84
Sampled By			RADIAN	ES	ES	RAS	RADIAN	RADIAN	RADIAN	ES	ES	RADIAN
Date Analyzed			10/03/84	08/31/82	08/31/82	09/28/83	10/22/84	03/31/86	10/27/86			10/08/84
Lab			RAS	ES	ES	RAS	RAS	SAC	SAC	ES	ES	RAS
Field Analysis												
Lab Analysis												
Aldrin	(LD) 05 NE	NO	NO	NO	NO	NO	0.005	NO	NO	NO	NO	NO
Dieldrin	(LD) 05 NE	NO	0.20	NO	NO	NO	0.02	NO	NO	NO	NO	0.001
Alpha chlordane	0.055 NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDT	NE	NO	NO	NO	NO	NO	0.02	NO	NO	NO	NO	NO
4,4'-DDE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE	NO	NO	NO	NO	NO	0.008	NO	NO	NO	NO	NO
Alpha endosulfan	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bromsalin sulfone	NE	NO	NO	NO	NO	NO	0.2	NO	NO	NO	NO	0.47
Endrin	0.200 NE	NO	NO	NO	NO	NO	0.05	NO	NO	NO	NO	NO
Endrin aldehyde	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Epoxichlor	0.020 NE	NO	NO	0.056	NO	NO	0.004	NO	NO	NO	NO	0.003
Epoxichlor epoxide	0.10 NE	NO	NO	NO	NO	NO	0.004	NO	NO	NO	NO	0.005
Alpha-BHC	0.700 NE	NO	NO	NO	NO	NO	0.008	NO	NO	NO	NO	0.002
Beta-BHC	300 NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4 NE	NO	0.047	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE	NO	NO	NO	NO	NO	0.001	NO	NO	NO	NO	NO
PCB-1242	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1271	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1282	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Triphenyl	5 NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	100 NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055 NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin heptachlor	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF ME : SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-20S	M4-20S	M4-20S	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21D	M4-21S
Dates Sampled			05/25/82	08/11/82	09/30/84	06/15/82	08/13/82	09/17/84	03/19/86	03/19/86	09/30/86	06/15/82
Sampled By			ES	ES	RAS	ES	ES	RAS	RADIAN	RADIAN	RADIAN	ES
Dates Analyzed					10/24/84		08/26/82	10/03/84	04/02/86	04/02/86	10/13/86	
Lab			ES	ES	RAS	ES	ES	RAS	SAC	SAC	SAC	ES
Field Analysis								FDA				
Lab Analysis									LDA			
Aldrin	(100) .05 NE		ND	ND	ND	0.012	ND	ND	ND	ND	ND	0.049
Dieldrin	(100) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	0.008	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin	0.200 NE	0.200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011
Reprathlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Reprathlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POB-12A2	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POB-12A4	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POB-1222	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POB-12A8	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triphenyls	5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

MJ = Monitoring Well

FDA = First field duplicate analysis

FDB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S	M4-21S
Delta Sampled			08/13/82	09/17/84	03/19/86	09/30/86	04/28/82	08/13/82	09/20/84	01/23/87	01/23/87	06/04/82
Sampled By			ES	RADIAN	RADIAN	RADIAN	ES	ES	RADIAN	RADIAN	RADIAN	ES
Delta Analyzed			08/27/82	10/03/84	04/02/86	10/13/86		08/27/82	10/23/84	02/18/87	02/23/87	
Lab			ES	RAS	SAC	SAC	ES	ES	RAS	SAC	SAC	ES
Field Analysis												
Lab Analysis												
Aldrin	(100) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(100) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	0.009	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	0.0039	ND	ND	ND	0.064
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.083
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin isomers	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

ES = First field duplicate analysis

NE = Second field duplicate analysis

ND = First laboratory duplicate analysis

NE = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

RAS = Radian Analytical Services

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DHS U.S. EPA		WELL NUMBER		M4-23D		M4-23S		M4-23D		M4-23S		M4-23D		M4-23S		M4-23D		M4-23S	
	Action	Level	Primary	MCL	08/13/82	09/21/84	04/28/82	08/13/82	09/26/84	03/17/86	04/01/86	03/17/86	04/28/82	08/13/82	09/26/84	03/17/86	04/01/86	03/17/86	04/28/82	08/13/82
Date Sampled					ES	RAS	ES	ES	RAS	RADIAN	RADIAN	RADIAN	ES	ES	RAS	RADIAN	SAC	RADIAN	ES	ES
Sampled By					ES	RAS	ES	ES	RAS	RADIAN	RADIAN	RADIAN	ES	ES	RAS	RADIAN	SAC	RADIAN	ES	ES
Date Analyzed					08/27/82	10/09/84	04/28/82	08/27/82	10/04/84	04/01/86	04/01/86	04/01/86	04/28/82	08/31/82	10/22/84	04/01/86	04/01/86	04/01/86	08/31/82	10/22/84
Lab					ES	RAS	ES	ES	RAS	RADIAN	RADIAN	RADIAN	ES	ES	RAS	RADIAN	SAC	RADIAN	ES	ES
Field Analysis																				
Lab Analysis																				
Aldrin	(100) 05 NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100) 05 NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfan sulfate	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1262	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1232	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1298	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Thiophene	5				NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	100				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	NE				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l  
 NA = Nothing detected  
 ES = Engineering Science, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	Primary MCL	M4-24D	M4-24D	M4-24D	M4-24S	M4-24S	M4-24S	M4-24S	M4-25D	M4-25S
Date Sampled			04/28/82	08/12/82	09/27/84	03/20/86	09/26/86	04/28/82	08/12/82	06/15/82	06/16/82
Sampled By			ES	ES	RADIAN	RADIAN	RADIAN	ES	ES	ES	ES
Date Analyzed			ES	ES	10/11/84	04/04/86	10/09/86	ES	ES	ES	ES
Lab			ES	ES	RAS	SAC	SAC	ES	ES	ES	ES
Field Analysis											
Lab Analysis											
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	0.018	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1942	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100 NE		NA	NA	NA	NA	ND	NA	NA	NA	NA
Gamma chlordane	0.055 NE		NA	NA	NA	NA	ND	NA	NA	NA	NA
Endrin heptone	NE		NA	NA	NA	NA	ND	NA	NA	NA	NA

ALL UNITS ARE ug/l  
NA = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Sciences, Inc.  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DBS Action Level	U.S. EPA Priority MCL	WELL NUMBER					M4-265	M4-266	M4-270	M4-270	M4-270
			M4-256	M4-256	M4-260	M4-260	M4-260					
Date Sampled			08/12/82	09/29/84	04/28/82	08/11/82	09/27/84	06/16/82	08/11/82	04/28/82	08/12/82	10/01/84
Sampled By			ES	R/L	ES	ES	RADIAN	ES	ES	ES	ES	RADIAN
Date Analyzed			08/30/82	10/22/84			10/11/84				08/31/82	10/23/84
Lab			ES	RAS	ES	ES	RAS	ES	ES	ES	ES	RAS
Field Analysis												PTA
Lab Analysis												PTA
Aldrin	(LOQ).05	NE	ND	ND	ND	ND	ND	0.165	ND	ND	ND	ND
Dieldrin	(LOQ).05	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005
4,4'-DDD	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfen	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfen	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfen sulfate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.39
Endrin aldehyde	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700	NE	ND	ND	ND	ND	ND	0.095	ND	ND	ND	ND
Beta-BHC	0.300	NE	ND	ND	ND	ND	ND	ND	0.035	ND	ND	ND
Gamma-BHC	4	NE	ND	ND	ND	ND	ND	ND	0.077	ND	ND	ND
Delta-BHC	NE	NE	ND	ND	ND	ND	ND	0.013	0.053	0.12	ND	ND
PCB-1262	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1222	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Triphenyls	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 M4 - Monitoring Well  
 PTA - First field duplicate analysis  
 RADIAN - Radian Corporation, Sacramento  
 ES - Engineering Science, Inc.  
 RAS - Radian Analytical Services  
 ND - Nothing detected  
 NA - Not analyzed  
 LOQ - Limit of quantitation  
 NE - Not established

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-27D	M4-27S	M4-27S	M4-28D	M4-28D	M4-28S	M4-29D	M4-29D	M4-29D	M4-29D
Date Sampled			10/01/84	06/16/82	08/12/82	09/12/84	06/17/82	08/17/82	09/25/84	04/28/82	08/16/82	10/01/84
Sampled By			RADIAN	ES	ES	RADIAN	ES	ES	RADIAN	ES	ES	RADIAN
Date Analyzed			10/26/84			10/03/84			10/10/84			10/23/84
Lab			RAS	ES	ES	RAS	ES	ES	RAS	ES	ES	RAS
Field Analysis			FTB									FTB
Lab Analysis												
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	0.145	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfen sulfone	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE		ND	ND	ND	ND	0.027	ND	ND	ND	ND	0.016
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1222	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptene	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
RAS = Radian Analytical Services

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FDB = First field duplicate analysis  
FTB = Second field duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES	U.S. EPA	WELL NUMBER										M4-31S	M4-31S	M4-31S	M4-31S	M4-31S	M4-31S
			Action	Primary	M4-25D	M4-25D	M4-25D	M4-25D	M4-25D	M4-25D	M4-25D	M4-25D						
Date Sampled			Level	MCL														
Sampled By																		
Date Analyzed																		
Lab																		
Field Analysis																		
Lab Analysis																		
Aldrin			(100) .05 NE															
Dieldrin			(100) .05 NE															
Alpha chlordane			0.055 NE															
4,4'-DDE			NE															
4,4'-DDD			NE															
Alpha endosulfan			NE															
Beta endosulfan			NE															
Endosulfan sulfate			NE															
Endrin			0.200 NE															
Endrin aldehyde			NE															
Epoxchlor			0.020 NE															
Epoxchlor epoxide			0.10 NE															
Alpha-BHC			0.700 NE															
Beta-BHC			0.300 NE															
Gamma-BHC			4 NE															
Delta-BHC			NE															
POB-1242			NE															
POB-1254			NE															
POB-1221			NE															
POB-1222			NE															
POB-1246			NE															
POB-1260			NE															
POB-1016			NE															
Triphenyls			5															
Heptachlor			100															
Gamma chlordane			0.055 NE															
Endrin heptachlor			NE															

ALL UNITS ARE ug/l

M4 = Monitoring Well

FNA = First field duplicate analysis

FTB = Second field duplicate analysis

RADIANT = Radiant Corporation, Sacramento

ES = Engineering Science, Inc.

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

NE = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	Priority MCL	WELL NUMBER									
			M4-31S	M4-31S	M4-31S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-33S	M4-36S
Date Sampled			09/25/84	03/28/86	12/03/86	09/29/82	09/18/84	01/29/87	01/29/87	04/16/87	07/31/87	09/29/82
Sampled By			RADIAN	RADIAN	RADIAN	ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES
Date Analyzed			10/10/84	04/08/86	12/15/86	10/17/82	10/08/84	02/24/87	02/24/87	04/30/87	08/11/87	10/17/82
Lab			RAS	SAC	SAC	ES	RAS	SAC	SAC	SAC	SAC	ES
Field Analysis								FOA	FOA		LDA	LDB
Lab Analysis												
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4 NE		ND	ND	ND	ND	0.91	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	0.052
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1272	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptone	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS /#G ug/l

MW = Monitoring Well  
FOA = First field duplicate analysis  
FOB = Second field duplicate analysis  
LOA = First laboratory duplicate analysis  
LOB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Sciences, Inc.  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-365	M4-365	M4-365	M4-365	M4-365	M4-37	M4-38D	M4-38D	M4-38D	M4-40S
Date Sampled			09/17/84	03/31/86	09/17/86	04/16/87	04/16/87	09/28/82	09/27/82	08/09/83	09/14/84	09/30/84
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	ES	ES	ES	RADIAN	RADIAN
Date Analyzed			10/23/84	04/09/86	09/24/86	05/01/87	05/01/87	10/02/82	10/17/82	09/28/83	10/22/84	10/22/84
Lab			RAS	SAC	SAC	SAC	SAC	ES	ES	RAS	RAS	RAS
Field Analysis												
Lab Analysis						LDA	LDB					
Aldrin	(100) 05 NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(100) 05 NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfen	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfen	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfen sulfate	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin	0.200	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.055
Bifenthrin aldehyde	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Epoxichlor	0.020	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Epoxichlor epoxide	0.10	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300	NE	ND	ND	ND	ND	ND	ND	0.021	ND	ND	ND
Gamma-BHC	4	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE	NE	ND	ND	ND	ND	ND	0.121	ND	ND	ND	ND
PCB-1242	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1222	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin isoprene	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

RADIAN = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento

First Laboratory duplicate analysis  
 Second Laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-41S	M4-41S	M4-41S	M4-41S	M4-42S	M4-42S	M4-43S	M4-43S	M4-44S	M4-44S
Date Sampled			09/14/82	09/24/84	03/13/86	11/18/86	11/18/86	09/27/82	09/28/84	09/14/82	09/13/84	09/13/82
Sampled By			ES	RADIAN	RADIAN	RADIAN	RADIAN	ES	RADIAN	ES	RADIAN	ES
Date Analyzed			10/17/82	10/10/84	03/31/86	12/01/86	12/01/86	10/18/82	10/11/84	10/18/82	10/02/84	10/18/82
Lab			ES	RAS	SAC	SAC	SAC	ES	RAS	ES	RAS	ES
Field Analysis												
Lab Analysis												
Aldrin	(100).05	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100).05	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Triphenyl sulfone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200	NE	NO	NO	NO	NO	NO	NO	0.020	NO	NO	0.03
Endrin aldehyde	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.1
Heptachlor	0.020	NE	NO	NO	NO	NO	NO	NO	NO	0.013	NO	NO
Heptachlor epoxide	0.10	NE	NO	NO	NO	NO	NO	NO	NO	0.013	NO	NO
Alpha-BHC	0.700	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4	4.0	NO	NO	NO	NO	NO	0.051	NO	0.012	NO	NO
Delta-BHC	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1222	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1246	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin heptene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 - Monitoring Well

FDA - First field duplicate analysis

FB - Second field duplicate analysis

RADIAN - Radian Corporation, Sacramento

ES - Engineering Science, Inc.

RAS - Radian Analytical Services

SAC - Radian Analytical Services, Sacramento

NO - Nothing detected

NA - Not analyzed

LQ - Limit of quantitation

NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Pesticide	U.S. EPA		WELL NUMBER									
	Action	Priority	M4-44S	M4-44S	M4-44S	M4-44S	M4-44S	M4-46S	M4-46S	M4-47S	M4-47S	M4-51
Decca Sampled			03/21/86	09/17/86	01/12/87	09/14/82	09/19/84	09/29/84	09/29/82	10/01/84	09/29/82	11/22/86
Decca Analyzed			04/02/86	09/24/86	01/21/87	11/01/82	10/08/84	10/22/84	11/02/82	10/22/84	10/18/82	12/09/86
Lab			SAC	SAC	SAC	ES	RAS	RAS	ES	RAS	ES	SAC
Field Analysis												
Lab Analysis												
Aldrin	(100) .05 NE		NO	NO	NO	NO	0.001	NO	NO	NO	NO	NO
Dieldrin	(100) .05 NE		NO	NO	NO	NO	0.001	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE		NO	NO	NO	NO	0.005	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen	NE		NO	NO	NO	NO	NO	0.068	NO	NO	NO	NO
Beta endosulfen	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfate	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE		NO	NO	NO	NO	NO	0.11	NO	NO	NO	NO
Epoxechlor	0.020 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Epoxechlor epoxide	0.10 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4		NO	NO	NO	0.038	NO	0.016	0.041	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	0.121	NO	NO	NO	NO	NO	NO
PCB-1262	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1232	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptachlor	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M4 - Monitoring Well  
 RADIUM = Radian Corporation, Sacramento  
 ES = Engineering Science, Inc.  
 RAS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DHS action Level	U.S. EPA Primary MCL	WELL NUMBER							
			M4-52	M4-53	M4-54	M4-54	M4-54	M4-55	M4-55	M4-57
Date Sampled			11/24/86	11/21/86	11/20/86	04/27/87	04/27/87	11/22/86	11/22/86	11/19/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/10/86	12/09/86	12/10/86	05/06/87	05/14/87	12/09/86	12/09/86	05/12/87
Lab			SAC	SAC	SAC	FDA	SAC	SAC	SAC	FDA
Field Analysis										
Lab Analysis										
Aldrin			ND	ND	ND	ND	ND	ND	ND	ND
DDT			ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane			ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE			ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD			ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan			ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan			ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate			ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin			ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin aldehyde			ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor			ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide			ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC			ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC			ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC			ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC			ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262			ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254			ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221			ND	ND	ND	ND	ND	ND	ND	ND
PCB-1222			ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248			ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260			ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016			ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene			ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor			ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane			ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin heptene			ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

ND = Nothing detected  
LOQ = Limit of quantitation  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

M4 = Monitoring Well  
FDA = First field duplicate analysis  
LDA = First laboratory duplicate analysis  
LIB = Second laboratory duplicate analysis

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-59	M4-59	M4-59	M4-59	M4-60	M4-61	M4-61	M4-61	M4-61	M4-63
Date Sampled			04/02/86	04/02/86	11/18/86	04/21/87	01/13/87	12/01/86	12/01/86	01/29/87	04/02/86	04/02/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/10/86	04/10/86	12/01/86	05/01/87	01/20/87	12/17/86	12/17/86	02/24/87	04/10/86	04/10/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB	PTA	PTA		LDA	LDB		PTA	PTB
Lab Analysis			LDA	LDB								
Aldrin	(LDQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LDQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfen sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1223	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methomyl	100 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin heptanoate	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS #NE ug/l

M4 = Monitoring Well  
 PTA = First field duplicate analysis  
 PTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
 NA = Not analyzed  
 LDQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER	M4-63	M4-63	M4-67	M4-67	M4-69	M4-70	M4-88	M4-89	M4-89	M4-90	M4-91
Date Sampled				11/25/86	11/25/86	03/20/86	10/17/86	11/25/86	01/29/87	01/06/87	01/06/87	01/06/87	01/20/87	01/20/87
Sampled By				RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed				12/11/86	12/09/86	04/03/86	10/28/86	12/12/86	02/23/87	01/14/87	01/14/87	01/14/87	02/18/87	02/18/87
Lab				SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FOA	FTB									FOA
Lab Analysis														LIB
Aldrin	(LOQ).05 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	(LOQ).05 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfen	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfen	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfen sulfate	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1222	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptene	NE			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FOA - First field duplicate analysis

FTB - Second field duplicate analysis

LIB - Second laboratory duplicate analysis

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER									
			M4-91	M4-100	M4-100	M4-100	M4-100	M4-101	M4-101	M4-101	M4-101	M4-102
Date Sampled			01/20/87	12/21/85	12/21/85	02/27/86	09/16/86	11/18/85	03/05/86	09/16/86	08/05/87	11/05/85
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			02/19/87	01/07/86	01/07/86	03/11/86	09/22/86	11/25/85	03/24/86	09/22/86	08/12/87	11/13/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Lab Analysis			FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB	FTB
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfen sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1272	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptachlor	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

FTB - First field duplicate analysis

FTB - Second field duplicate analysis

LN - First laboratory duplicate analysis

LN - Second laboratory duplicate analysis

RADIANT - Radiant Corporation, Sacramento

SAC - Radiant Analytical Services, Sacramento

ND - Nothing detected

NA - Not analyzed

LOQ - Limit of quantitation

NE - Not established



## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	ITS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-102	M4-102	M4-102	M4-102	M4-102	M4-103	M4-103	M4-103	M4-103	M4-104
Date Sampled												
Date Analyzed												
Lab												
Field Analysis												
Lab Analysis												
Aldrin	(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfen	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfate	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bifenthrin	0.200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bifenthrin aldehyde	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1222	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Triphenylene	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Hexachlorocyclopentadiene	100		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bifenthrin isoprene	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FIA = First field duplicate analysis

FIB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DSS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-104	M4-104	M4-105	M4-105	M4-105	M4-106	M4-106	M4-106	M4-107	M4-107
Date Sampled			03/26/86	12/02/86	12/21/75	03/21/86	12/04/86	11/21/85	03/13/86	09/18/86	11/07/85	04/01/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/02/86	12/17/86	01/07/86	04/08/86	12/16/86	11/30/85	03/31/86	09/29/86	11/14/85	04/09/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis							FDA	FTB				
Lab Analysis												
Aldrin	(100) .05 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100) .05 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfen	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4.0 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1232	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptone	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 NE = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

PCB-1242 = First field duplicate analysis  
 PCB-1254 = Second field duplicate analysis

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-107	M4-108	M4-108	M4-108	M4-110	M4-110	M4-110	M4-111	M4-111	M4-111
Date Sampled			09/19/86	12/27/85	04/01/86	09/19/86	11/06/86	03/31/86	09/19/86	11/06/85	04/03/86	04/03/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/01/86	01/08/86	04/09/86	09/30/86	11/18/86	04/09/86	10/01/86	11/13/85	04/14/86	04/14/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Aldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfan sulfate	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POB-1242	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POB-1254	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POB-1221	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POB-1232	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POB-1248	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POB-1260	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento

ALL UNITS ARE ug/l  
M4 = Monitoring Well  
FIA = First field duplicate analysis  
FIB = Second field duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-111	M4-111	M4-112	M4-112	M4-112	M4-113	M4-114	M4-114	M4-115	M4-115
Date Sampled			09/22/86	09/22/86	12/20/85	04/02/86	09/22/86	11/06/86	11/11/85	02/28/86	11/26/86	12/19/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/01/86	10/01/86	01/07/86	04/10/86	10/01/86	11/18/86	11/19/85	03/13/86	12/30/85	03/25/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis			LDA	LDB								
Lab Analysis												
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Epoxchlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Epoxchlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1292	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1222	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirexophlor	100 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptachlor	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l  
 M4 = Monitoring Well  
 LDA = First Laboratory duplicate analysis  
 LDB = Second Laboratory duplicate analysis  
 RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento  
 ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	Primary	M4-115	M4-116	M4-116	M4-116	M4-116	M4-116	M4-116	M4-117	M4-117	M4-117	M4-117
Date Sampled			12/02/86	11/11/85	11/11/85	02/28/86	02/28/86	09/26/86	09/26/86	10/20/86	10/20/86	10/20/86	10/20/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/17/86	11/15/85	11/19/85	03/14/86	03/13/86	10/09/86	10/09/86	10/29/86	10/29/86	10/29/86	10/29/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis				FDA	FDA					FDA	FDA	FDA	FDA
Lab Analysis						LDA	LDB	LDA	LDB	LDA	LDA	LDA	LDB
Aldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfan sulfate	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrinol	0.020		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrinol epoxide	0.10		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
FOB-12A2	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
FOB-12A4	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
FOB-12Z1	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
FOB-12Z2	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
FOB-12A8	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
FOB-12B0	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
FOB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Triphenyl	5		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptene	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

FDA = First field duplicate analysis

LDA = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	Date Sampled Sampled By Date Analyzed Lab	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-118	M4-118	M4-119	M4-119	M4-120	M4-120	M4-121	M4-121	M4-122	M4-122
Field Analysis	03/25/86 RADIAN 04/03/86 SAC			10/21/86 RADIAN 11/03/86 SAC	03/05/86 RADIAN 03/24/86 SAC	10/20/86 RADIAN 10/29/86 SAC	03/04/86 RADIAN 03/24/86 SAC	10/13/86 RADIAN 10/21/86 SAC	10/13/86 RADIAN 10/21/86 SAC	02/26/86 RADIAN 03/11/86 SAC	10/13/86 RADIAN 10/21/86 SAC	02/26/86 RADIAN 03/11/86 SAC	11/12/86 RADIAN 11/20/86 SAC
Lab Analysis													
Aldrin	(100).05 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100).05 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfen	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfate	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1271	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1272	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055 NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin heptene	NE			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL LIMITS ARE ug/l  
M4 = Monitoring Well  
FDM = First field duplicate analysis  
FDB = Second field duplicate analysis  
RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-123	M4-123	M4-124	M4-124	M4-125	M4-126	M4-127	M4-127	M4-128	M4-128
Date Sampled			03/25/86	10/21/86	02/25/86	03/03/86	02/25/86	03/03/86	03/04/86	10/24/86	11/13/86	11/13/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			04/02/86	11/03/86	03/11/86	03/11/86	03/11/86	03/11/86	03/24/86	10/29/86	11/25/86	11/25/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4.0 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1272	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	100 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptene	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

LOQ = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DHS Action Level	U.S. EPA Primary MCL	M4-128	M4-129	M4-130	M4-131	M4-132	M4-133	M4-134	M4-135
Date Sampled			04/16/87	11/17/86	01/16/87	11/19/86	11/19/86	11/19/86	11/24/86	01/21/87
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed			04/30/87	12/01/86	02/18/87	11/25/86	12/04/86	12/05/86	12/10/86	02/19/87
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis										
Lab Analysis										
Aldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO
Endosulfan sulfate	NE		NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200 NE		NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE		NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020 NE		NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10 NE		NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE		NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE		NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4.0 NE		NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE		NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE		NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE		NO	NO	NO	NO	NO	NO	NO	NO
PCB-1222	NE		NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE		NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE		NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5 NE		NO	NO	NO	NO	NO	NO	NO	NO
Mechachlor	100 NE		NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptachlor	NE		NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 PDA = First field duplicate analysis  
 PDB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis  
 Analytical data for M4-137, M4-140 and M4-141 appear under EA-137, EA-140 and EA-141

NO = Nothing detected  
 LQ = Limit of quantitation  
 NE = Not established

RADIANT = Radiant Corporation, Sacramento  
 SAC = Radiant Analytical Services, Sacramento



## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-132	M4-1000	M4-1000	M4-1001	M4-1001	M4-1001	M4-1002	M4-1002	M4-1002	M4-1002
Date Sampled			07/29/87	12/12/85	03/07/86	12/05/86	12/18/85	04/04/86	10/15/86	04/02/86	04/02/86	09/25/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			08/10/87	12/20/85	03/27/86	12/18/86	12/27/85	04/14/86	10/27/86	04/10/86	04/10/86	10/09/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1222	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

FA = First field duplicate analysis

FD = Second field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-1003	M4-1003	M4-1003	M4-1004	M4-1004	M4-1004	M4-1004	M4-1005	M4-1005	M4-1005
Date Sampled			12/18/85	03/18/86	10/15/86	12/18/85	03/18/86	09/29/86	12/17/85	12/17/85	03/14/86	09/25/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/30/85	04/02/86	10/27/86	12/27/85	04/01/86	10/09/86	12/23/85	12/23/85	03/31/86	10/09/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Aldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfen	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfate	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Brutin	0.200	0.200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Brutin aldehyde	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bupachlor	0.020 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Bupachlor epoxide	0.10 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4	4.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1222	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Brutin heptane	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

FIA = First field duplicate analysis

FTB = Second field duplicate analysis

LDA = First laboratory duplicate analysis

LTB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	Date Sampled Sampled By Date Analyzed Lab	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
				M4-1005	M4-1005	M4-1009	M4-1009	M4-1009	M4-1010	M4-1010	M4-1010	M4-1011	M4-1011
Date Sampled	09/25/86			09/25/86	04/16/87	12/19/85	03/21/86	10/09/86	10/09/86	04/08/86	10/23/86	11/05/85	03/27/86
Sampled By	RADIAN			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed	10/09/86			05/01/87	05/01/87	12/30/85	04/02/86	10/21/86	10/21/86	04/14/86	11/03/86	11/13/85	04/08/86
Lab	SAC			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis	FTB			FTB	FTB					FTB			
Lab Analysis								LDA	LDB				
Aldrin	(LDQ) 05 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(LDQ) 05 NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfan sulfate	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PDB-1242	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PDB-1254	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PDB-1221	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PDB-1232	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PDB-1248	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PDB-1260	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PDB-1016	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Triphenyl	5			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin ketone	NE			NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well  
 FTA = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento  
 SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA Action Level	Primary MCL	WELL NUMBER									
			M4-1011	M4-1012	M4-1012	M4-1012	M4-1013	M4-1013	M4-1013	M4-1013	M4-1014	M4-1014
Date Sampled			12/01/86	11/15/85	03/06/86	09/24/86	07/27/87	11/12/85	03/11/86	12/01/86	04/20/87	11/14/85
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/12/86	11/25/85	03/27/86	10/07/86	07/31/87	11/19/85	03/27/86	12/12/86	05/01/87	11/21/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Aldrin	(100) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(100) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptone	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 = Monitoring Well

NE = First field duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES U.S. EPA		WELL NUMBER									
	Action	Primary	M4-1014	M4-1015	M4-1015	M4-1016	M4-1016	M4-1017	M4-1017	M4-1017	M4-1017	M4-1018
	Level	MCL										
Date Sampled			12/03/86	12/14/85	03/25/86	12/05/86	11/14/85	03/12/86	12/01/86	11/08/85	03/18/86	09/23/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			12/15/86	12/20/85	04/03/86	12/18/86	11/22/85	03/28/86	12/12/86	11/19/85	04/01/86	10/07/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
Aldrin	(100).05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(100).05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1271	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1272	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin isomers	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL LIMITS ARE ug/l  
M4 = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
SAC = Radian Analytical Services, Sacramento  
ND = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	U.S. EPA		WELL NUMBER									
	Action	Level	M4-1018	M4-1018	M4-1019	M4-1019	M4-1019	M4-1020	M4-1020	M4-1020	M4-1020	M4-1021
Date Sampled			03/12/86	09/23/86	12/19/85	03/14/86	03/14/86	11/08/85	03/07/86	11/08/85	12/01/86	11/07/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			03/31/86	10/06/86	12/30/85	03/31/86	03/31/86	11/19/85	03/27/86	11/19/85	12/12/86	11/19/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis						LDA	LDB	LDA		LDB		
Aldrin	(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfan	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfan sulfate	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Epoxchlor	0.020 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Epoxchlor epoxide	0.10 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1262	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1232	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1249	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Triphenyl	5 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma chlordane	0.055 NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin heptene	NE		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ALL UNITS ARE ug/l

M4 = Monitoring Well

LDA = First Laboratory duplicate analysis

LDB = Second Laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Preliminary MCL	WELL NUMBER									
			M4-1022	M4-1023	M4-1024	M4-1025	M4-1026	M4-1027	M4-1029	M4-1029	M4-1030	M4-1031
Dance Supplied			11/07/86	11/04/86	11/04/86	11/03/86	11/05/86	11/25/86	11/11/86	11/11/86	11/11/86	11/18/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Dance Analyzed			11/19/86	11/18/86	11/18/86	11/18/86	11/19/86	12/09/86	11/19/86	11/19/86	11/19/86	12/01/86
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
							LDA					
							LDB					
Aldrin	(100).05 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(100).05 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfen	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfate	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200 NE	0.200	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC	0.700 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4.0 NE	4.0	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1232	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5 NE	5	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100 NE	100	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055 NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin isomers	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 = Monitoring Well

FDN = First field duplicate analysis

FD = Second field duplicate analysis

LDN = First laboratory duplicate analysis

LDB = Second laboratory duplicate analysis

RADIAN = Radian Corporation, Sacramento

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

LOQ = Limit of quantitation

NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DBS	U.S. EPA	Action Level	Primary	WELL NUMBER									
					M4-1032	M4-1033	M4-1034	M4-1035	M4-1036	M4-1037	M4-1038	M4-1039	M4-1038	M4-1039
Date Sampled					11/19/86	11/12/86	11/12/86	11/25/86	11/19/86	08/12/87	11/20/86	08/04/87	11/20/86	08/03/87
Sampled by					RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Date Analyzed					12/05/86	11/20/86	11/20/86	12/09/86	12/05/86	08/27/87	12/02/86	08/12/87	12/02/86	08/11/87
Lab					SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis														
Lab Analysis														
Aldrin			(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin			(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane			0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfen			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfate			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin			0.200 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor			0.020 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide			0.10 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha-BHC			0.700 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC			0.300 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC			4.0 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
DDT-1242			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
DDT-1254			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
DDT-1221			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
DDT-1232			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
DDT-1246			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
DDT-1260			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
DDT-1016			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene			5 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor			100 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane			0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptone			NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
M4 = Monitoring Well

RADIANT = Radiant Corporation, Sacramento  
SAC = Radiant Analytical Services, Sacramento  
NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established



## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES		U.S. EPA		WELL NUMBER									
	Action Level	Primary MCL	M4-1040	M4-1041	M4-1042	M4-1043	Q4-136	Q4-136	Q4-136	Q4-142	Q4-148	Q4-155	Q4-358	
Date Sampled			11/17/86	11/14/86	11/21/86	11/21/86	01/21/86	01/21/86	10/17/86	10/30/86	01/21/86	04/14/86	10/14/86	
Sampled By			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	
Date Analyzed			11/25/86	11/24/86	12/09/86	12/09/86	02/03/86	02/03/86	10/27/86	11/18/86	02/03/86	04/22/86	10/24/86	
Lab			SAC	SAC	SAC	SAC	RAS	RAS	SAC	SAC	RAS	SAC	SAC	
Field Analysis														
Lab Analysis							LDA	LDB						
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Alpha endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Beta endosulfen	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Endosulfen sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bulbin	0.200		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bulbin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gamma-BHC	4.0		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1262	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1252	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Triphenyls	5		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Heptachlor	100		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Bulbin heptane	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

ALL UNITS ARE ug/l

ND = Nothing detected

NA = Not analyzed

LOQ = Limit of quantitation

NE = Not established

RADIANT = Radiant Corporation, Sacramento

RAS = Radiant Analytical Services

SAC = Radiant Analytical Services, Sacramento

U.S. EPA Primary MCL

DES Action Level

Field Analysis

Lab Analysis

WELL NUMBER

M4-1040

M4-1041

M4-1042

M4-1043

Q4-136

Q4-136

Q4-142

Q4-148

Q4-155

Q4-358

MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			04-544	04-544	04-544	04-810	04-810	04-829	04-829	04-868	04-899	04-906
Date Sampled			10/28/86	10/28/86	08/19/83	10/13/86	10/13/86	10/27/86	10/27/86	08/24/83	04/16/86	10/30/86
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/03/86	11/13/86	09/25/83	10/24/86	10/24/86	11/03/86	11/13/86	09/25/83	04/24/86	11/18/86
Lab			SAC	ELI	RMS	SAC	SAC	SAC	ELI	RMS	SAC	SAC
Field Analysis						FTB	FTB					
Lab Analysis						LDA	LDA					LDA
Aldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	(LOQ) .05 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta endosulfan	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	0.200 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	0.020 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	0.10 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha-BHC	0.700 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta-BHC	0.300 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma-BHC	4 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Delta-BHC	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1016	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	5 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	100 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma chlordane	0.055 NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin heptone	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ALL LIMITS ARE ug/l

FTB = First field duplicate analysis  
 FTB = Second field duplicate analysis  
 LDA = First laboratory duplicate analysis  
 LDA = Second laboratory duplicate analysis  
 ON = Off base residential well

RADIAN = Radian Corporation, Sacramento  
 RMS = Radian Analytical Services  
 SAC = Radian Analytical Services, Sacramento  
 ELI = Burke Laboratories, Inc.

ND = Nothing detected  
 NA = Not analyzed  
 LOQ = Limit of quantitation  
 NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			CM-906	CM-910	CM-911	CM-911	CM-911	CM-913	CM-916	CM-917	CM-920	CM-921
Date Sampled			10/30/86	10/29/86	09/19/85	09/19/85	11/20/85	07/31/83	08/25/83	07/31/83	09/19/85	09/19/85
Sampled by			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RAS	RAS	RAS	RADIAN	RADIAN
Date Analyzed			11/18/86	11/06/86	09/30/85	09/30/85	11/30/85	09/28/83	10/05/83		11/30/85	09/30/85
Lab			SAC	SAC	RAS	RAS	RAS	RAS	RAS	RAS	RAS	RAS
Field Analysis												
Lab Analysis			LDB	LDB	LDA	LDB						
Aldrin	(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Dieldrin	(LOQ) .05 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Alpha endosulfen	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta endosulfen	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endosulfen sulfates	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin	0.200 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin aldehyde	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor	0.020 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Heptachlor epoxide	0.10 NE		NO	NO	NO	NO	NO	NO	0.003	NO	NO	NO
Alpha-BHC	0.700 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Beta-BHC	0.300 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma-BHC	4 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1242	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1232	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Toxaphene	5 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Methoxychlor	100 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Gamma chlordane	0.055 NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Endrin heptachlor	NE		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

LDA = First Laboratory duplicate analysis  
LDB = Second Laboratory duplicate analysis  
CM = Off base residential well

RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NA = Not analyzed  
LOQ = Limit of quantitation  
NE = Not established

## MASTER LOG OF WELLS SAMPLED FOR PESTICIDES (FEBRUARY 1982-AUGUST 1987)

Parameter	DES Action Level	U.S. EPA Priority MCL	WELL NUMBER			
			04-921	04-921	04-924	04-1238
Date Sampled			11/20/85	11/20/85	10/28/86	10/29/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/30/85	11/30/85	11/13/86	11/06/86
Lab			RAS	RAS	ELI	SAC
Field Analysis			LDA	LDB	LDA	LDB
Lab Analysis			LDA	LDB	LDA	LDB
Aldrin	(LDQ) .05 NE		NO	NO	NO	NO
Dieldrin	(LDQ) .05 NE		NO	NO	NO	NO
Alpha chlordane	0.055 NE		NO	NO	NO	NO
4,4'-DDE	NE		NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO
4,4'-DDD	NE		NO	NO	NO	NO
Alpha endosulfan	NE		NO	NO	NO	NO
Beta endosulfan	NE		NO	NO	NO	NO
Endosulfan sulfate	NE		NO	NO	NO	NO
Endrin	0.200 NE		NO	NO	NO	NO
Endrin aldehyde	NE		NO	NO	NO	NO
Heptachlor	0.020 NE		NO	NO	NO	NO
Heptachlor epoxide	0.10 NE		NO	NO	NO	NO
Alpha-BHC	0.700 NE		NO	NO	NO	NO
Beta-BHC	0.300 NE		NO	NO	NO	NO
Gamma-BHC	4.0 NE		NO	NO	NO	NO
Delta-BHC	NE		NO	NO	NO	NO
PCB-124	NE		NO	NO	NO	NO
PCB-125	NE		NO	NO	NO	NO
PCB-126	NE		NO	NO	NO	NO
PCB-127	NE		NO	NO	NO	NO
PCB-128	NE		NO	NO	NO	NO
PCB-129	NE		NO	NO	NO	NO
PCB-130	NE		NO	NO	NO	NO
PCB-131	NE		NO	NO	NO	NO
PCB-132	NE		NO	NO	NO	NO
PCB-133	NE		NO	NO	NO	NO
PCB-134	NE		NO	NO	NO	NO
PCB-135	NE		NO	NO	NO	NO
PCB-136	NE		NO	NO	NO	NO
PCB-137	NE		NO	NO	NO	NO
PCB-138	NE		NO	NO	NO	NO
PCB-139	NE		NO	NO	NO	NO
PCB-140	NE		NO	NO	NO	NO
PCB-141	NE		NO	NO	NO	NO
PCB-142	NE		NO	NO	NO	NO
PCB-143	NE		NO	NO	NO	NO
PCB-144	NE		NO	NO	NO	NO
PCB-145	NE		NO	NO	NO	NO
PCB-146	NE		NO	NO	NO	NO
PCB-147	NE		NO	NO	NO	NO
PCB-148	NE		NO	NO	NO	NO
PCB-149	NE		NO	NO	NO	NO
PCB-150	NE		NO	NO	NO	NO
PCB-151	NE		NO	NO	NO	NO
PCB-152	NE		NO	NO	NO	NO
PCB-153	NE		NO	NO	NO	NO
PCB-154	NE		NO	NO	NO	NO
PCB-155	NE		NO	NO	NO	NO
PCB-156	NE		NO	NO	NO	NO
PCB-157	NE		NO	NO	NO	NO
PCB-158	NE		NO	NO	NO	NO
PCB-159	NE		NO	NO	NO	NO
PCB-160	NE		NO	NO	NO	NO
PCB-161	NE		NO	NO	NO	NO
PCB-162	NE		NO	NO	NO	NO
PCB-163	NE		NO	NO	NO	NO
PCB-164	NE		NO	NO	NO	NO
PCB-165	NE		NO	NO	NO	NO
PCB-166	NE		NO	NO	NO	NO
PCB-167	NE		NO	NO	NO	NO
PCB-168	NE		NO	NO	NO	NO
PCB-169	NE		NO	NO	NO	NO
PCB-170	NE		NO	NO	NO	NO
PCB-171	NE		NO	NO	NO	NO
PCB-172	NE		NO	NO	NO	NO
PCB-173	NE		NO	NO	NO	NO
PCB-174	NE		NO	NO	NO	NO
PCB-175	NE		NO	NO	NO	NO
PCB-176	NE		NO	NO	NO	NO
PCB-177	NE		NO	NO	NO	NO
PCB-178	NE		NO	NO	NO	NO
PCB-179	NE		NO	NO	NO	NO
PCB-180	NE		NO	NO	NO	NO
PCB-181	NE		NO	NO	NO	NO
PCB-182	NE		NO	NO	NO	NO
PCB-183	NE		NO	NO	NO	NO
PCB-184	NE		NO	NO	NO	NO
PCB-185	NE		NO	NO	NO	NO
PCB-186	NE		NO	NO	NO	NO
PCB-187	NE		NO	NO	NO	NO
PCB-188	NE		NO	NO	NO	NO
PCB-189	NE		NO	NO	NO	NO
PCB-190	NE		NO	NO	NO	NO
PCB-191	NE		NO	NO	NO	NO
PCB-192	NE		NO	NO	NO	NO
PCB-193	NE		NO	NO	NO	NO
PCB-194	NE		NO	NO	NO	NO
PCB-195	NE		NO	NO	NO	NO
PCB-196	NE		NO	NO	NO	NO
PCB-197	NE		NO	NO	NO	NO
PCB-198	NE		NO	NO	NO	NO
PCB-199	NE		NO	NO	NO	NO
PCB-200	NE		NO	NO	NO	NO
PCB-201	NE		NO	NO	NO	NO
PCB-202	NE		NO	NO	NO	NO
PCB-203	NE		NO	NO	NO	NO
PCB-204	NE		NO	NO	NO	NO
PCB-205	NE		NO	NO	NO	NO
PCB-206	NE		NO	NO	NO	NO
PCB-207	NE		NO	NO	NO	NO
PCB-208	NE		NO	NO	NO	NO
PCB-209	NE		NO	NO	NO	NO
PCB-210	NE		NO	NO	NO	NO
PCB-211	NE		NO	NO	NO	NO
PCB-212	NE		NO	NO	NO	NO
PCB-213	NE		NO	NO	NO	NO
PCB-214	NE		NO	NO	NO	NO
PCB-215	NE		NO	NO	NO	NO
PCB-216	NE		NO	NO	NO	NO
PCB-217	NE		NO	NO	NO	NO
PCB-218	NE		NO	NO	NO	NO
PCB-219	NE		NO	NO	NO	NO
PCB-220	NE		NO	NO	NO	NO
PCB-221	NE		NO	NO	NO	NO
PCB-222	NE		NO	NO	NO	NO
PCB-223	NE		NO	NO	NO	NO
PCB-224	NE		NO	NO	NO	NO
PCB-225	NE		NO	NO	NO	NO
PCB-226	NE		NO	NO	NO	NO
PCB-227	NE		NO	NO	NO	NO
PCB-228	NE		NO	NO	NO	NO
PCB-229	NE		NO	NO	NO	NO
PCB-230	NE		NO	NO	NO	NO
PCB-231	NE		NO	NO	NO	NO
PCB-232	NE		NO	NO	NO	NO
PCB-233	NE		NO	NO	NO	NO
PCB-234	NE		NO	NO	NO	NO
PCB-235	NE		NO	NO	NO	NO
PCB-236	NE		NO	NO	NO	NO
PCB-237	NE		NO	NO	NO	NO
PCB-238	NE		NO	NO	NO	NO
PCB-239	NE		NO	NO	NO	NO
PCB-240	NE		NO	NO	NO	NO
PCB-241	NE		NO	NO	NO	NO
PCB-242	NE		NO	NO	NO	NO
PCB-243	NE		NO	NO	NO	NO
PCB-244	NE		NO	NO	NO	NO
PCB-245	NE		NO	NO	NO	NO
PCB-246	NE		NO	NO	NO	NO
PCB-247	NE		NO	NO	NO	NO
PCB-248	NE		NO	NO	NO	NO
PCB-249	NE		NO	NO	NO	NO
PCB-250	NE		NO	NO	NO	NO
PCB-251	NE		NO	NO	NO	NO
PCB-252	NE		NO	NO	NO	NO
PCB-253	NE		NO	NO	NO	NO
PCB-254	NE		NO	NO	NO	NO
PCB-255	NE		NO	NO	NO	NO
PCB-256	NE		NO	NO	NO	NO
PCB-257	NE		NO	NO	NO	NO
PCB-258	NE		NO	NO	NO	NO
PCB-259	NE		NO	NO	NO	NO
PCB-260	NE		NO	NO	NO	NO
PCB-261	NE		NO	NO	NO	NO
PCB-262	NE		NO	NO	NO	NO
PCB-263	NE		NO	NO	NO	NO
PCB-264	NE		NO	NO	NO	NO
PCB-265	NE		NO	NO	NO	NO
PCB-266	NE		NO	NO	NO	NO
PCB-267	NE		NO	NO	NO	NO
PCB-268	NE		NO	NO	NO	NO
PCB-269	NE		NO	NO	NO	NO
PCB-270	NE		NO	NO	NO	NO
PCB-271	NE		NO	NO	NO	NO
PCB-272	NE		NO	NO	NO	NO
PCB-273	NE		NO	NO	NO	NO
PCB-274	NE		NO	NO	NO	NO
PCB-275	NE		NO	NO	NO	NO
PCB-276	NE		NO	NO	NO	NO
PCB-277	NE		NO	NO	NO	NO
PCB-278	NE		NO	NO	NO	NO
PCB-279	NE		NO	NO	NO	NO
PCB-280	NE		NO	NO	NO	NO
PCB-281	NE		NO	NO	NO	NO
PCB-282	NE		NO	NO	NO	NO
PCB-283	NE		NO	NO	NO	NO
PCB-284	NE		NO	NO	NO	NO
PCB-285	NE		NO	NO	NO	NO
PCB-286	NE		NO	NO	NO	NO
PCB-287	NE		NO	NO	NO	NO
PCB-288	NE		NO	NO	NO	NO
PCB-289	NE		NO	NO	NO	NO
PCB-290	NE		NO	NO	NO	NO
PCB-291	NE		NO	NO	NO	NO
PCB-292	NE		NO	NO	NO	NO
PCB-293	NE		NO	NO	NO	NO
PCB-294	NE		NO	NO	NO	NO
PCB-295	NE		NO	NO	NO	NO
PCB-296	NE		NO	NO	NO	NO
PCB-297	NE		NO	NO	NO	NO
PCB-298	NE		NO	NO	NO	NO
PCB-299	NE		NO	NO	NO	NO
PCB-300	NE		NO	NO	NO	NO
PCB-301	NE		NO	NO	NO	NO
PCB-302	NE		NO	NO	NO	NO
PCB-303	NE		NO	NO	NO	NO
PCB-304	NE		NO	NO	NO	NO
PCB-305	NE		NO	NO	NO	NO
PCB-306	NE		NO	NO	NO	NO
PCB-307	NE		NO	NO	NO	NO
PCB-308	NE		NO	NO	NO	NO
PCB-309	NE		NO	NO	NO	NO
PCB-310	NE		NO	NO	NO	NO
PCB-311	NE		NO	NO	NO	NO
PCB-312	NE		NO	NO	NO	NO
PCB-313	NE		NO	NO	NO	NO
PCB-314	NE		NO	NO	NO	NO
PCB-315	NE		NO	NO	NO	NO
PCB-316	NE		NO	NO	NO	NO
PCB-317	NE		NO	NO	NO	NO
PCB-318	NE		NO	NO	NO	NO
PCB-319	NE		NO	NO	NO	NO
PCB-320	NE		NO	NO	NO	NO
PCB-321	NE		NO	NO	NO	NO
PCB-322	NE		NO	NO	NO	NO
PCB-323	NE		NO	NO	NO	NO
PCB-324	NE		NO	NO	NO	NO
PCB-325	NE		NO	NO	NO	NO
PCB-326	NE		NO	NO	NO	NO
PCB-327	NE		NO	NO	NO	NO
PCB-328	NE		NO	NO	NO	NO
PCB-329	NE		NO	NO	NO	NO
PCB-330	NE		NO	NO	NO	NO
PCB-331	NE		NO	NO	NO	NO
PCB-332	NE		NO	NO	NO	NO
PCB-333	NE		NO	NO	NO	NO
PCB-334	NE		NO	NO	NO	NO
PCB-335	NE		NO	NO	NO	NO
PCB-336	NE		NO	NO		

**RADIAN**  
CORPORATION

RESULTS FOR PCBs

**RADIAN**  
CORPORATION

THIS PAGE INTENTIONALLY BLANK

MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	BM-1	BM-2	BM-8	BM-10	BM-11	BM-12	BM-13	BM-13	BM-17	BM-18	BM-18
Data Sampled			01/11/82	01/11/82	01/11/82	12/02/85	01/11/82	01/11/82	01/11/82	12/02/85	01/11/82	01/11/82	12/02/85
Sampled By			ES	ES	ES	RADIAN	ES	ES	ES	RADIAN	ES	ES	RADIAN
Data Analyzed						12/17/85				12/16/85			12/16/85
Lab			ES	ES	ES	SAC	ES	ES	ES	SAC	ES	ES	SAC
Field Analysis													FIA
Lab Analysis													
PCB-12A2	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1271	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1232	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

FDA = First field duplicate analysis  
BM = Base production well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	DBS Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			BM-18	BM-28	BM-29	M4-16D	M4-16S	M4-17D	M4-17S	M4-18D	M4-18S	M4-19D	M4-19S	
Date Sampled			12/02/85	01/11/82	01/11/82	08/17/82	08/17/82	08/17/82	08/17/82	08/16/82	08/16/82	08/16/82	08/16/82	
Sampled By			RADIAN	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
Date Analyzed			12/16/85			08/26/82	08/27/82	08/26/82	08/31/82	08/26/82	08/26/82	08/26/82	08/31/82	
Lab			SAC	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
Field Analysis			FTB											
Lab Analysis														
FOB-12A2	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
FOB-1254	NE	NE	NO	0.24	NO	NO	NO	NO	NO	NO	NO	NO	NO	
FOB-1221	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
FOB-1232	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
FOB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
FOB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
FOB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

ALL UNITS ARE ug/l

M4 = Monitoring Well

FTB = Second field duplicate analysis

BM = Base production well

RADIAN = Radian Corporation, Sacramento

ES = Engineering Science, Inc.

SAC = Radian Analytical Services, Sacramento

NO = Nothing detected

NE = Not established



MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-21D	M4-20S	M4-21D	M4-21S	M4-22S	M4-23D	M4-23S	M4-24D	M4-24S	M4-25D
Date Sampled			08/11/82	08/11/82	08/13/82	08/13/82	08/13/82	08/13/82	08/13/82	08/12/82	08/12/82	08/12/82
Sampled By			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Date Analyzed			08/26/82	09/15/82	08/26/82	08/27/82	08/27/82	08/27/82	08/31/82	08/27/82	08/27/82	08/27/82
Lab			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES
Field Analysis												
Lab Analysis												
PCB-1282	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1222	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

ES = Engineering Science, Inc.  
NO = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	DHS Action Level	U.S. EPA Priority MCL	Well Number	MW-256	MW-260	MW-265	MW-270	MW-275	MW-280	MW-29	MW-290	MW-295	MW-305	MW-315
Date Sampled				08/12/82	08/11/82	08/11/82	08/12/82	08/12/82	08/17/82	12/02/85	08/16/82	08/16/82	08/17/82	08/17/82
Sampled By				ES	ES	ES	ES	ES	ES	RADIAN	ES	ES	ES	ES
Date Analyzed				08/30/82	08/30/82	08/30/82	08/31/82	08/31/82	08/26/82	12/17/85	08/26/82	08/30/82	09/01/82	08/27/82
Lab				ES	ES	ES	ES	ES	ES	SAC	ES	ES	ES	ES
Field Analysis														
Lab Analysis														
PCB-1242	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1271	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1272	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
MW = Monitoring Well

RADIAN = Radian Corporation, Sacramento  
ES = Engineering Science, Inc.  
SAC = Radian Analytical Services, Sacramento

NO = Nothing detected  
NE = Not established

MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	DHS Action Level	U.S. EPA Primary MCL	WELL NUMBER											
			M4-33S	M4-36S	M4-37	M4-38D	M4-40S	M4-41S	M4-42S	M4-43S	M4-44S	M4-45S	M4-46S	
Date Sampled			09/29/82	09/29/82	09/28/82	09/21/82	09/29/82	09/14/82	09/27/82	09/14/82	09/13/82	09/14/82	09/29/82	
Sampled By			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
Date Analyzed			10/17/82	10/17/82	10/02/82	10/17/82	10/17/82	10/17/82	10/18/82	10/18/82	10/18/82	10/01/82	10/18/82	
Lab			ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	ES	
Field Analysis														
Lab Analysis														
PCB-1202	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
PCB-1221	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
PCB-1232	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	

ALL UNITS ARE ug/l  
M4 - Monitoring Well

ES - Engineering Science, Inc.  
NO - Nothing detected  
NE - Not established

MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	DES Action Level	U.S. EPA Primary MCL	M4-495	M4-475	M4-100	M4-100	M4-101	M4-103	M4-103	M4-103	M4-104	M4-105
Date Sampled			09/29/82	09/29/82	12/21/85	12/21/85	11/18/85	12/20/85	12/20/85	12/20/85	12/15/85	12/21/85
Sampled By			ES	ES	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			10/02/82	10/18/82	01/07/86	01/07/86	11/25/85	01/07/86	01/07/86	01/07/86	12/20/85	01/07/86
Lab			ES	ES	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis					FIA	FIA	LDA	FIA	FIA	FIA		
Lab Analysis							LDA	LDA	LDA	LDA		
PCB-1242	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1221	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1222	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l  
 M4 - Monitoring Well  
 FIA - First field duplicate analysis  
 FDB - Second field duplicate analysis  
 LDA - First laboratory duplicate analysis  
 LDB - Second laboratory duplicate analysis  
 RADIAN - Radian Corporation, Sacramento  
 ES - Engineering Science, Inc.  
 SAC - Radian Analytical Services, Sacramento  
 ND - Nothing detected  
 NE - Not established

## MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	U.S. EPA Action Level	U.S. EPA Primary MCL	WELL NUMBER									
			M4-106	M4-108	M4-112	M4-115	M4-1000	M4-1001	M4-1003	M4-1004	M4-1005	M4-1009
Data Sampled			11/21/85	12/27/85	12/20/85	12/19/85	12/12/85	12/18/85	12/19/85	12/18/85	12/17/85	12/19/85
Sampled by			RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT	RADIANT
Data Analyzed			11/30/85	01/08/86	01/07/86	12/30/85	12/20/85	12/27/85	12/27/85	12/27/85	12/23/85	12/30/85
Lab			SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
Field Analysis												
Lab Analysis												
PCB-1242	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1254	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1271	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1272	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1248	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1260	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
PCB-1016	NE	NE	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

ALL UNITS ARE ug/l

M4 - Monitoring Well

LDA - First Laboratory duplicate analysis

LIB - Second Laboratory duplicate analysis

Analytical data for M4-137, M4-140 and M4-141 appear under M4-137, M4-140 and M4-141

RADIANT = Radiant Corporation, Sacramento

SAC = Radiant Analytical Services, Sacramento

NO = Nothing detected

NE = Not established

MASTER LOG OF WELLS SAMPLED FOR POLY-CHLORINATED BIPHENYL (JANUARY 1982-FEBRUARY 1986)

Parameter	U.S. EPA Action Level	Primary MCL	M4-1012	M4-1018	M4-1019	Q4-136	Q4-136	Q4-148
Date Sampled			11/15/85	11/18/85	12/19/85	01/21/86	01/21/86	01/21/86
Sampled By			RADIAN	RADIAN	RADIAN	RADIAN	RADIAN	RADIAN
Date Analyzed			11/25/85	11/25/85	12/30/85	02/03/86	02/03/86	02/03/86
Lab			SAC	SAC	SAC	RAS	RAS	RAS
Field Analysis								
Lab Analysis						LJA	LJB	
PCB-1242	NE	NE	ND	ND	ND	ND	ND	ND
PCB-1254	NE	NE	ND	ND	ND	ND	ND	ND
PCB-1221	NE	NE	ND	ND	ND	ND	ND	ND
PCB-1232	NE	NE	ND	ND	ND	ND	ND	ND
PCB-1248	NE	NE	ND	ND	ND	ND	ND	ND
PCB-1260	NE	NE	ND	ND	ND	ND	ND	ND
PCB-1016	NE	NE	ND	ND	ND	ND	ND	ND

ALL UNITS ARE ug/l

M4 - Monitoring Well

LJA - First Laboratory duplicate analysis

LJB - Second Laboratory duplicate analysis

Q4 - Off base residential well

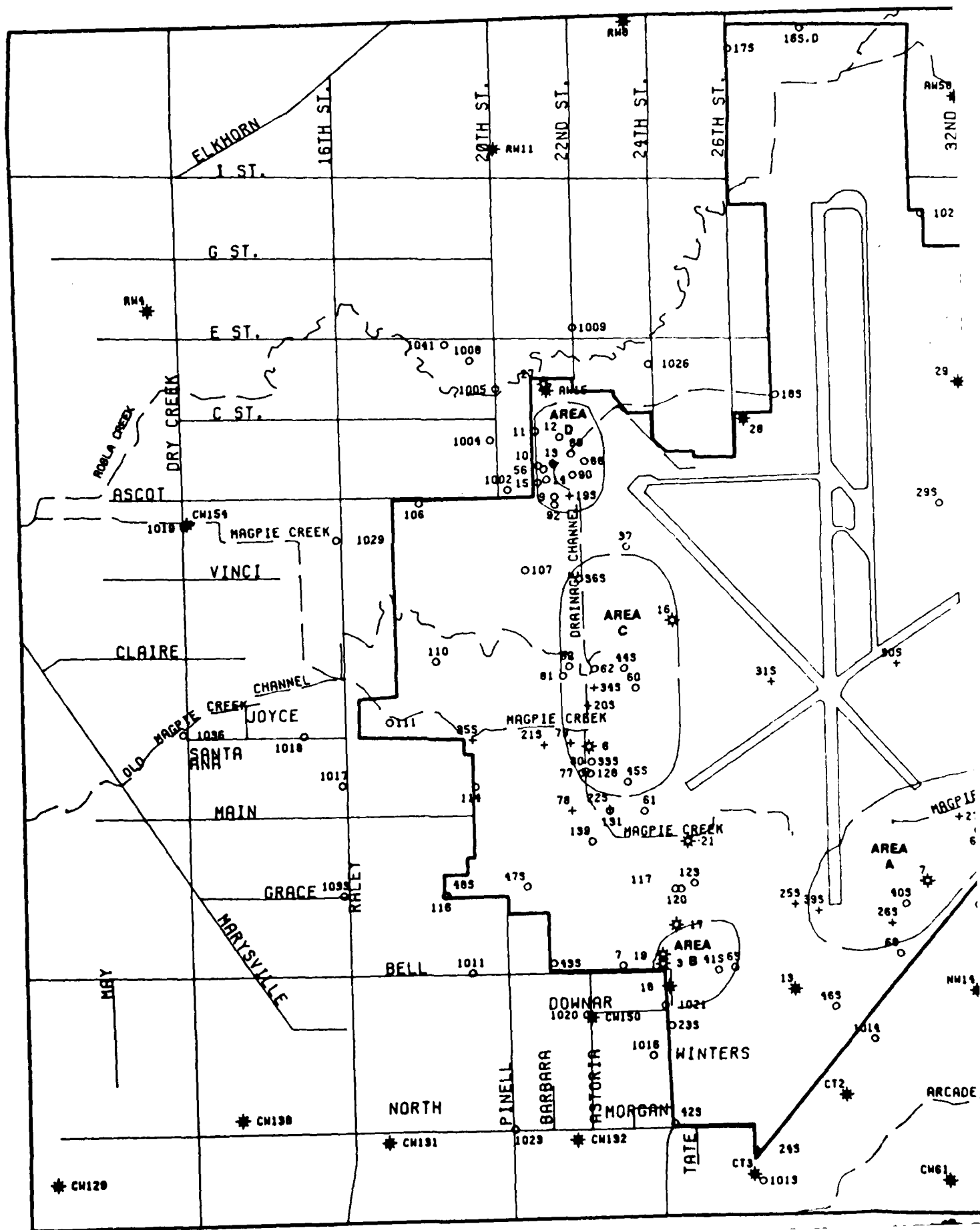
Cannot open file: repl.itb

Not an accessible table name: TBP1

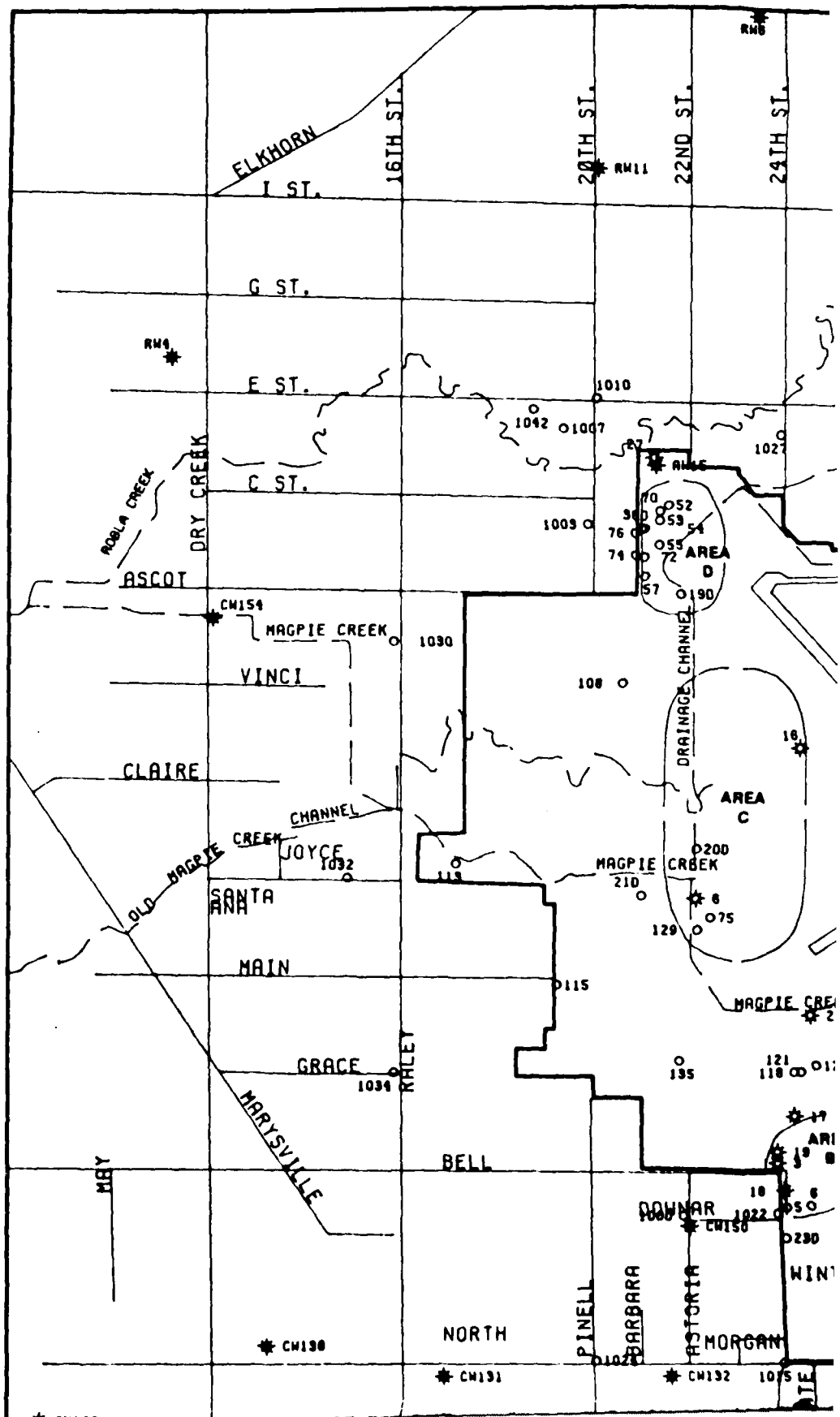
RADIAN = Radian Corporation, Sacramento  
RAS = Radian Analytical Services  
SAC = Radian Analytical Services, Sacramento

ND = Nothing detected  
NE = Not established

## Shallow Zone Monitoring Wells

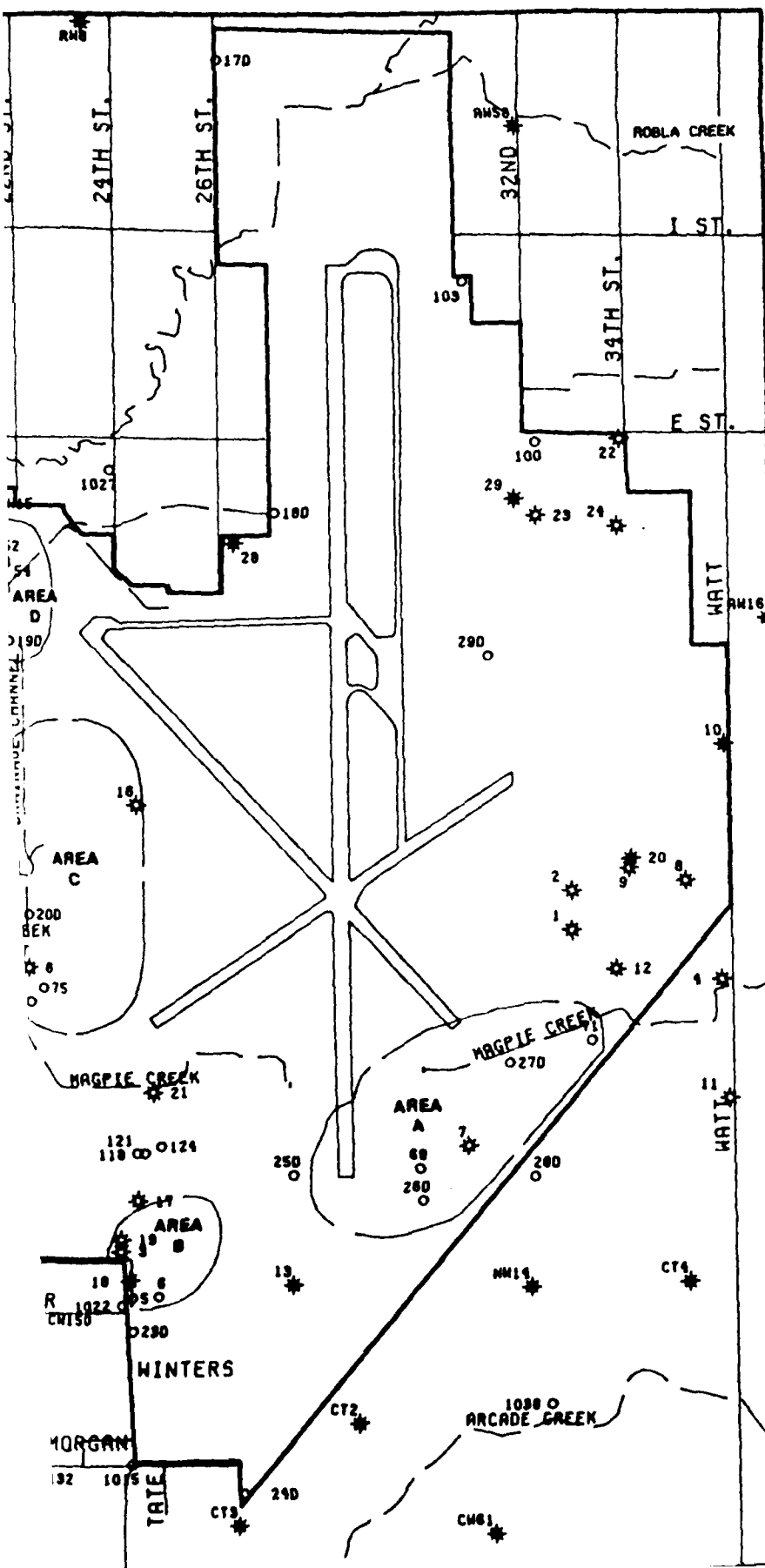


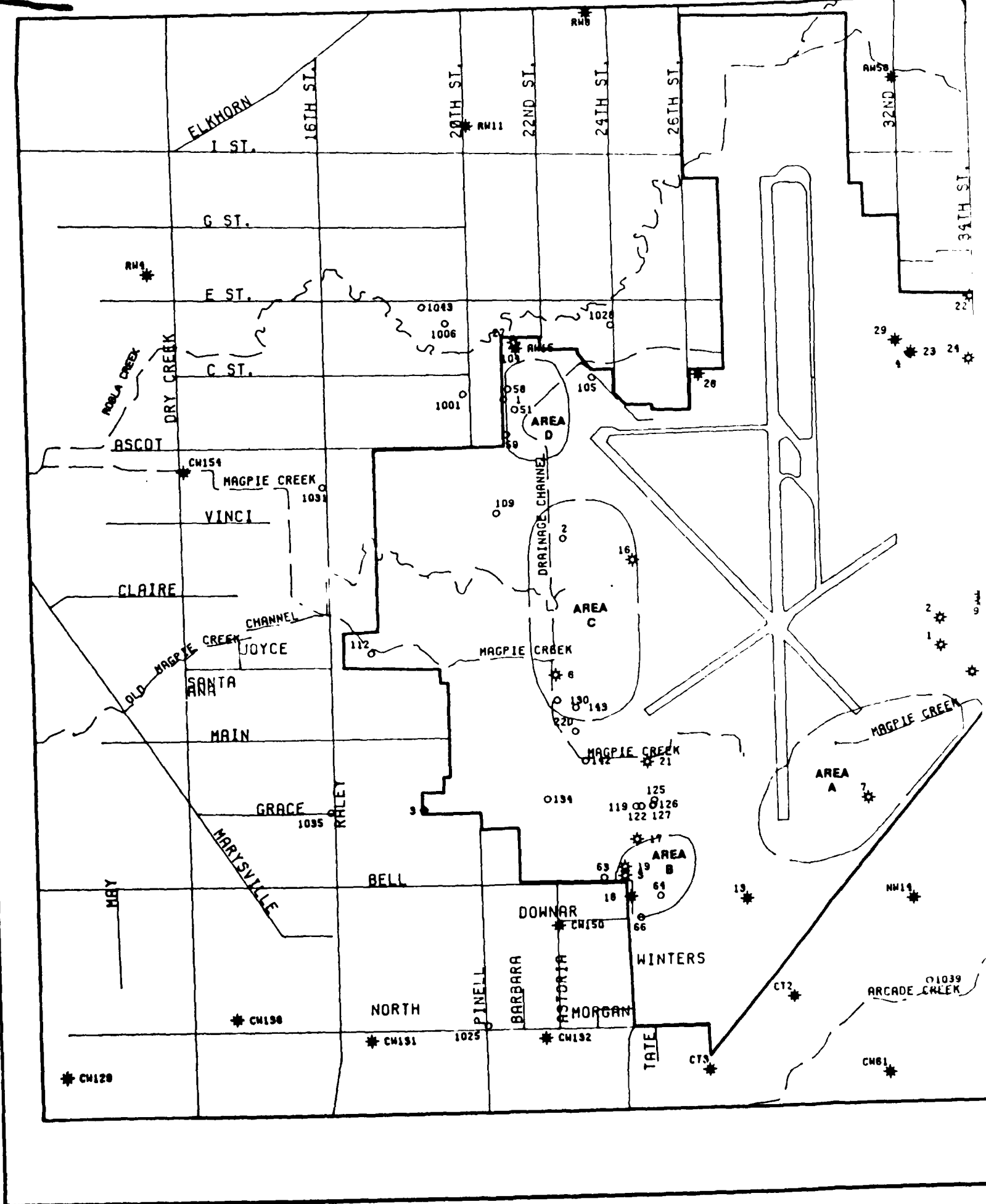
## Middle Zone Monitoring

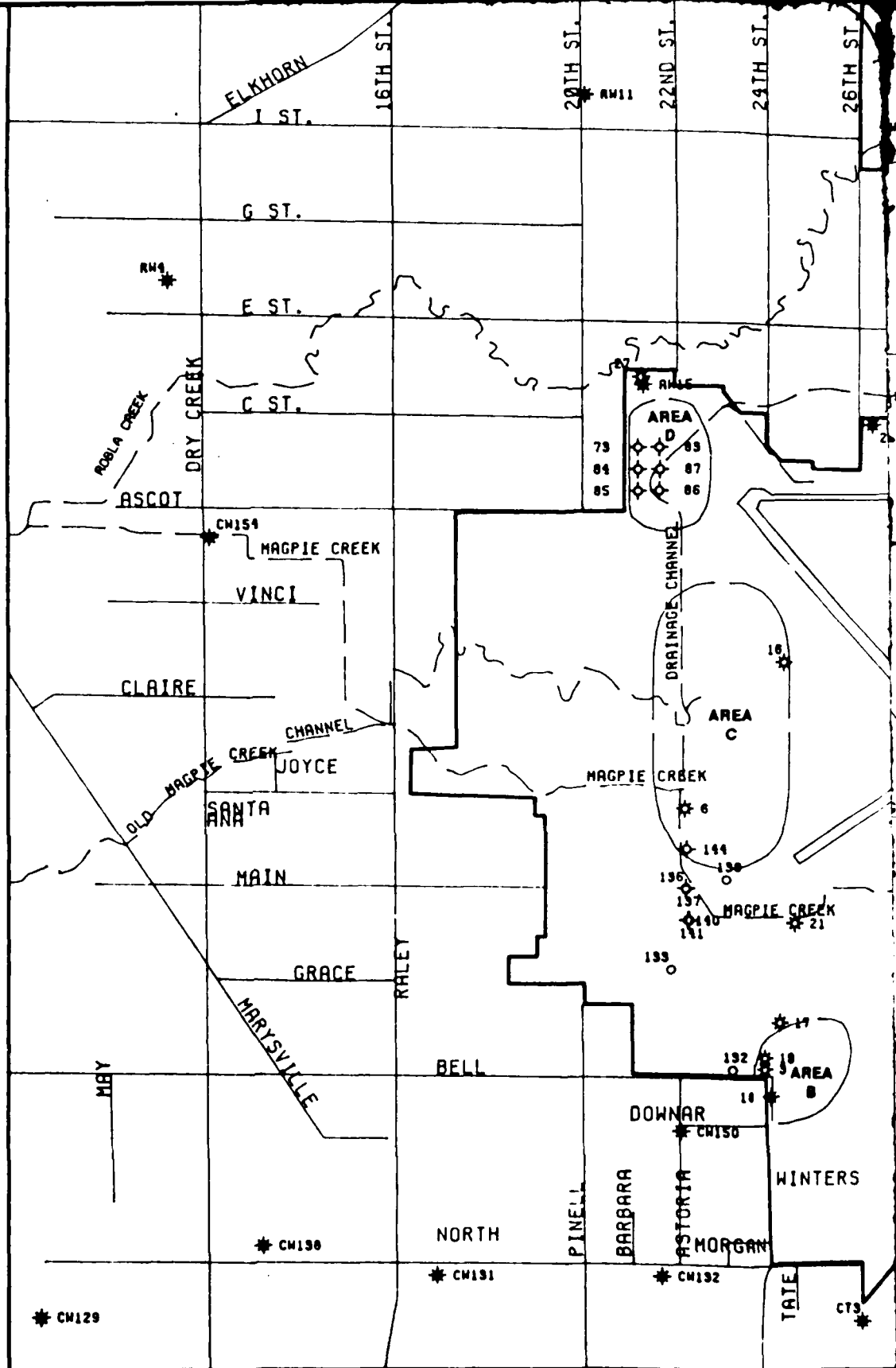
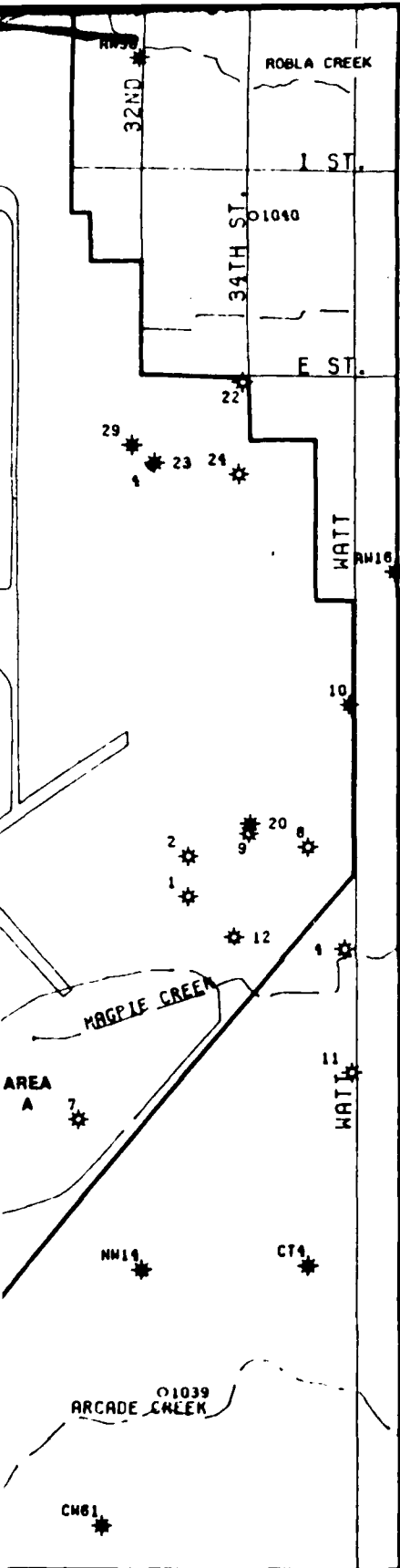


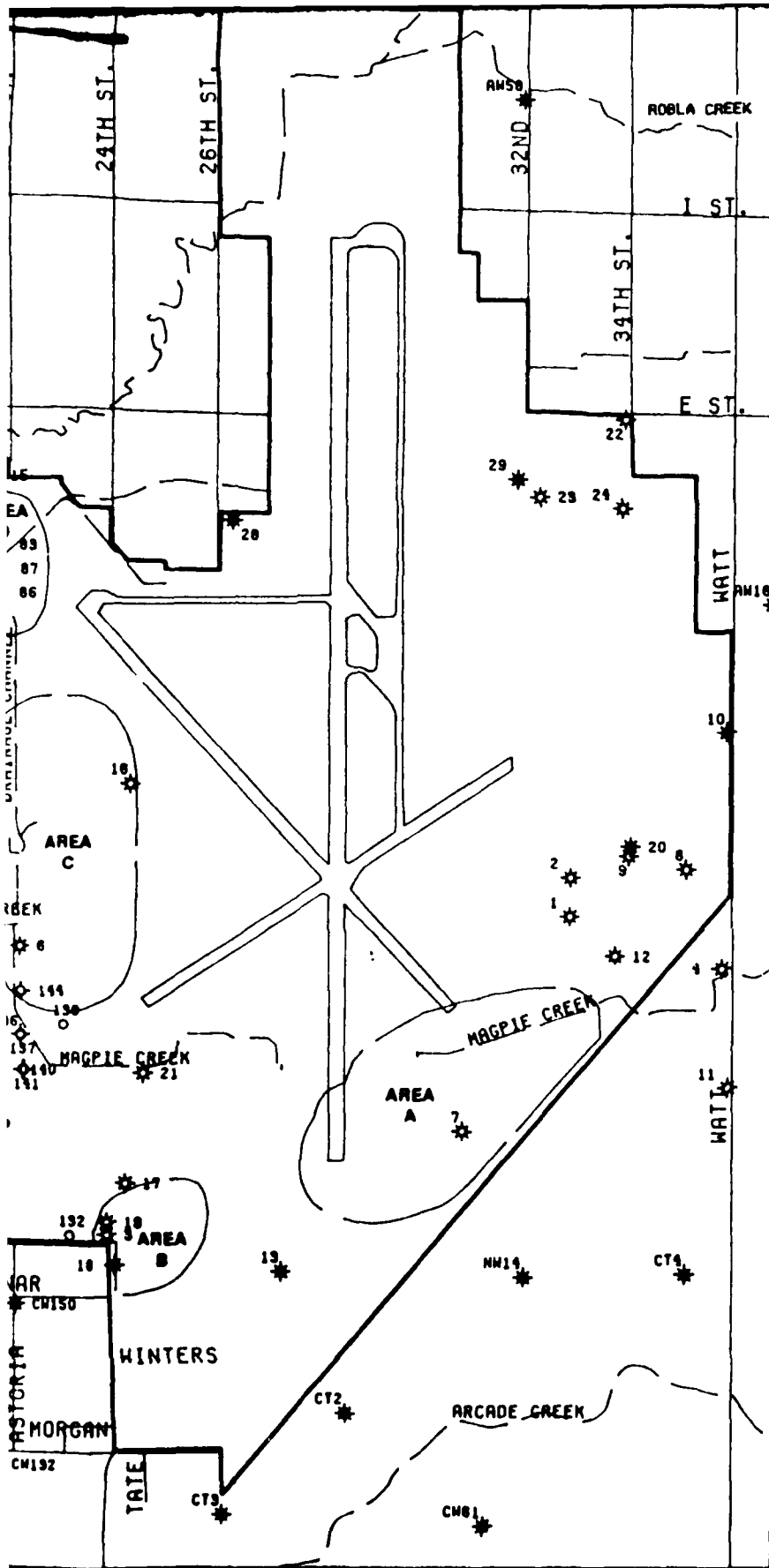


# Monitoring Wells







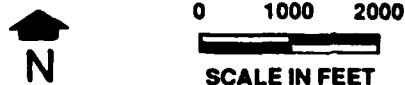


# **Plate 1.** **Locations of Wells.**

**McClellan AFB**  
**Annual Technical Report**  
**(January - December 1988)**

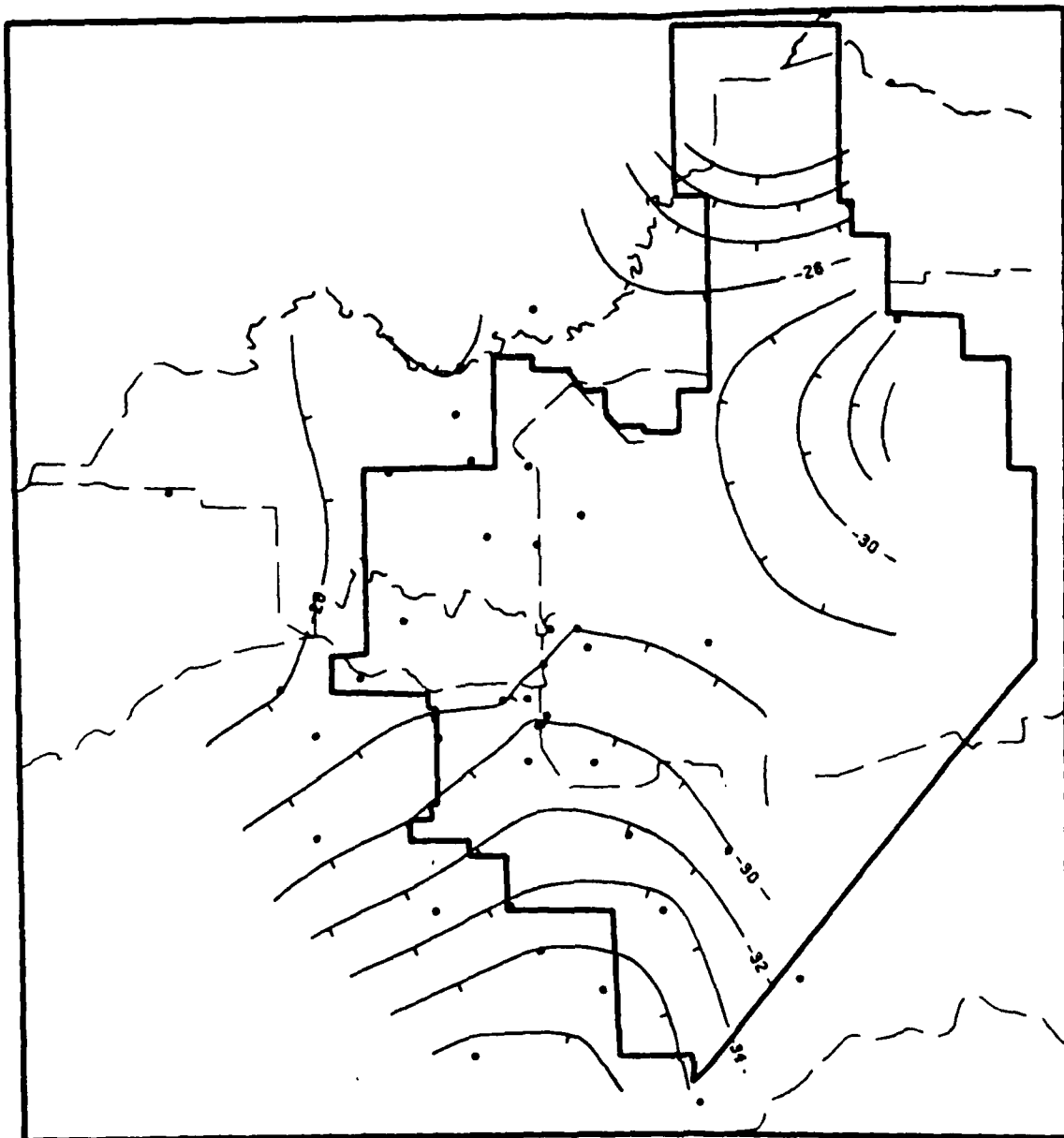
## **LEGEND:**

- McClellan AFB Boundary
- AREA Boundaries of Past Disposal / Storage Sites
- Streams
- Monitoring Well
- ◇ Extraction Well
- + Dry Well
- \* Active Water Supply Well
- ☆ Inactive Water Supply Well

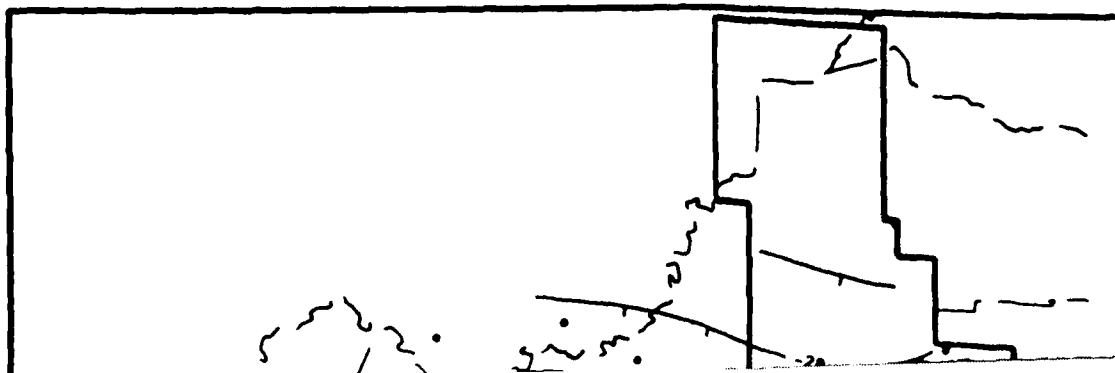


**RADIAN**  
**CORPORATION**

Water Levels in Shallow Monitoring Wells 10/86



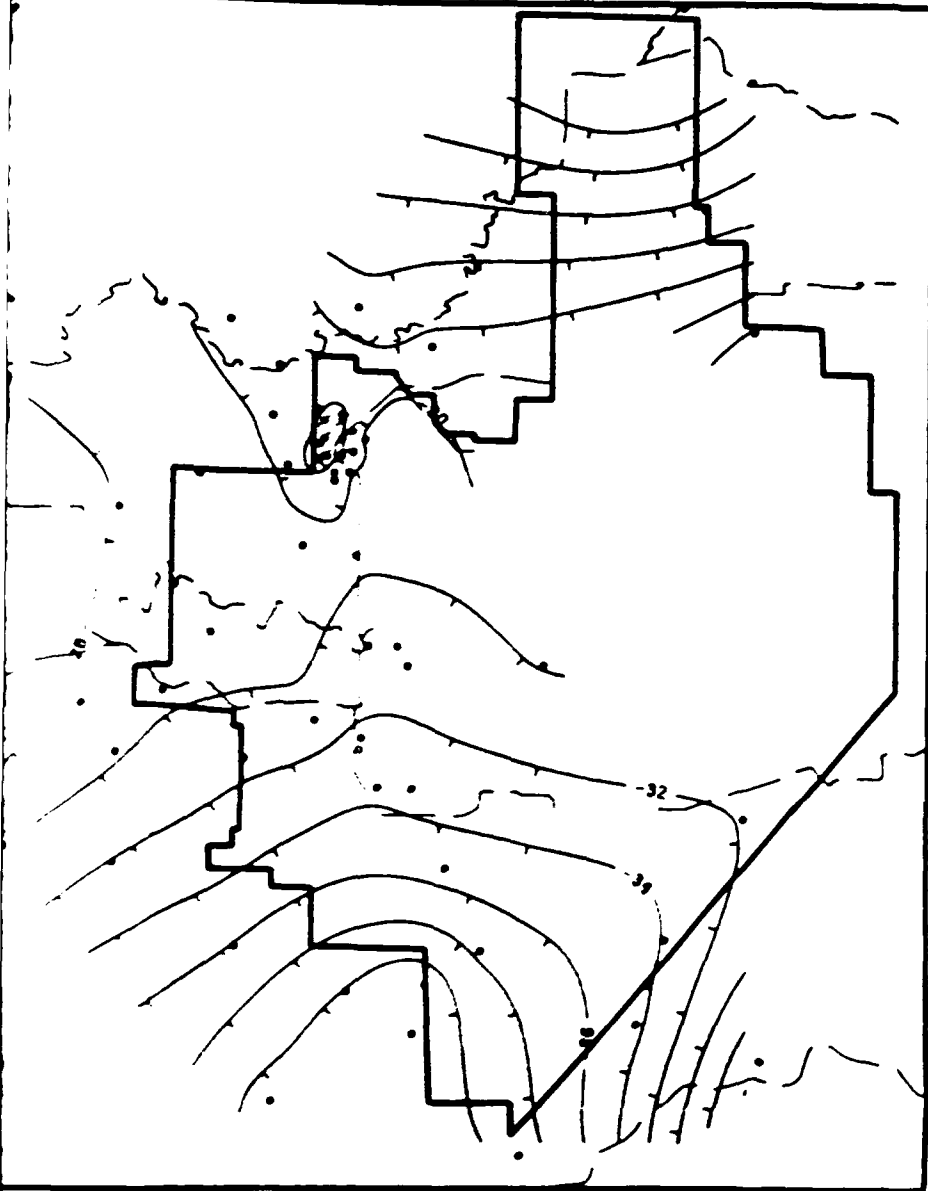
Water Levels in Shallow Monitoring Wells 1/88



V

Wa

**Water Levels in Shallow Monitoring Wells 10/87**



**Water Levels in Shallow Monitoring Wells 10/88**



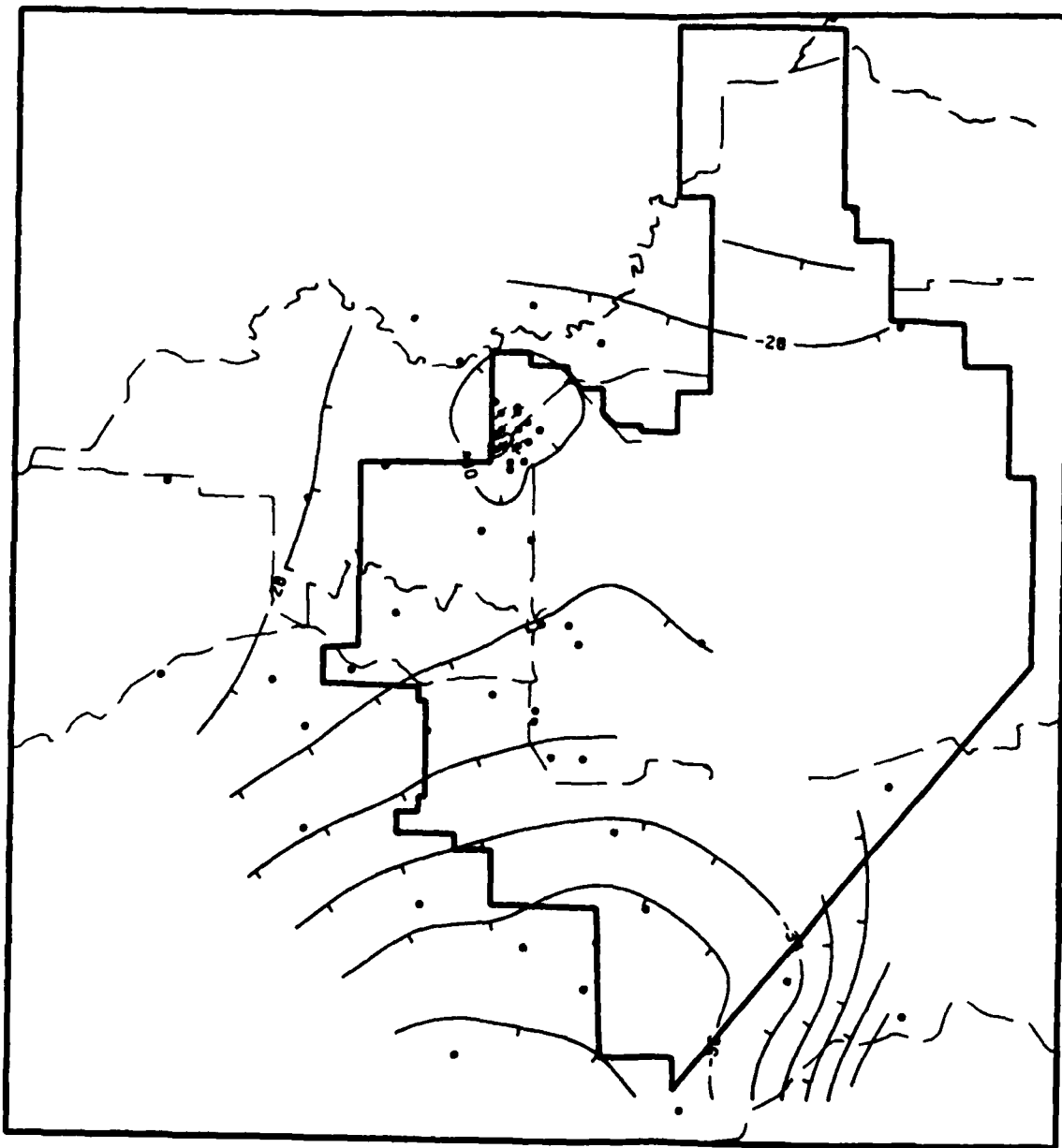
**Plate 2.  
Potentiometric Maps for  
the Shallow Monitoring Zone**

**McClellan AFB  
Annual Technical Report  
(January - December 1988)**

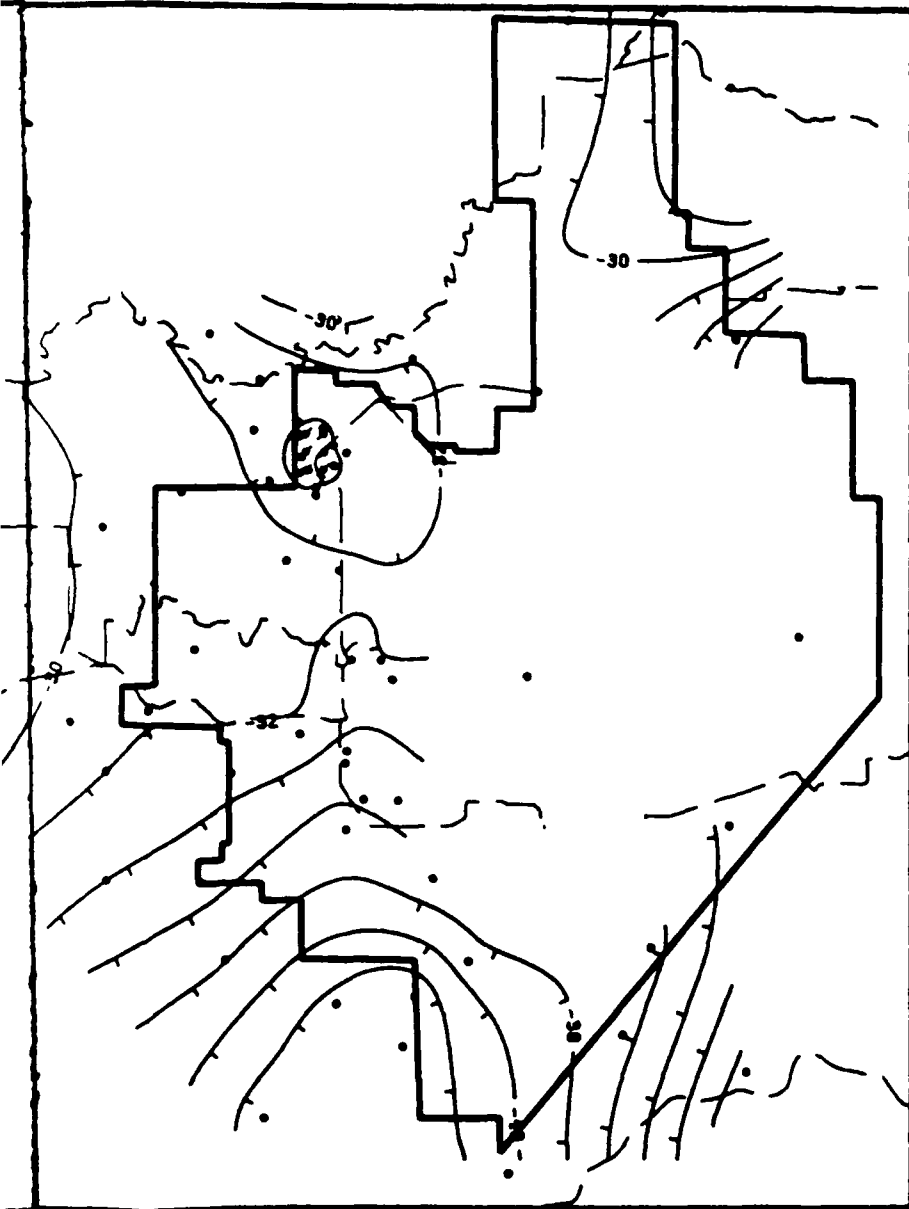
**April 1989**

**LEGEND:**

Water Levels in Shallow Monitoring Wells 1/88



ter Levels in Shallow Monitoring Wells 10/88



**Plate 2.**  
**Potentiometric Maps for**  
**the Shallow Monitoring Zone**

**McClellan AFB**  
**Annual Technical Report**  
**(January - December 1988)**

**April 1989**

**LEGEND:**

——— **McClellan AFB Boundary**

~~~~~ **Streams**

• **Monitoring Well**

⊗ **Extraction Well**

—30— **Contours of Equal Hydraulic Head**  
(Note: Hash marks indicate groundwater flow direction.)

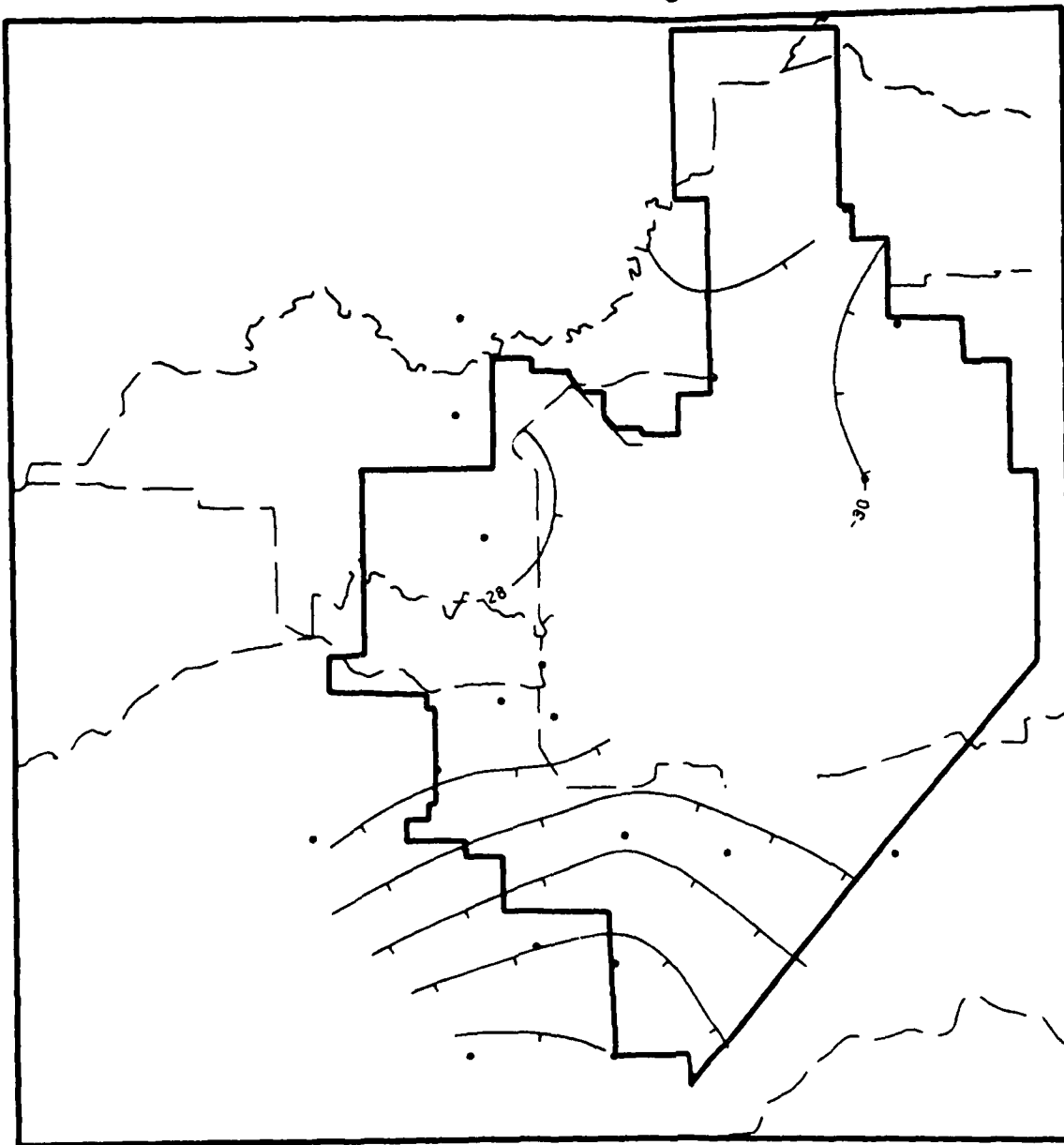


0 1500 3000  
SCALE IN FEET

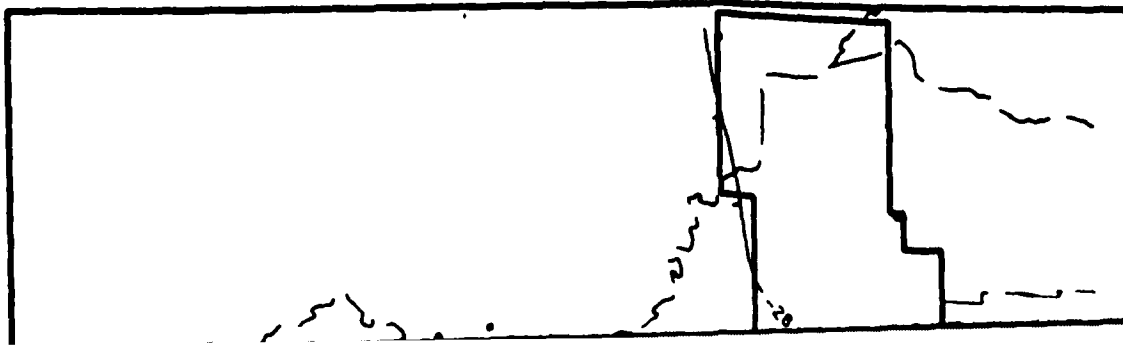
**RADIAN**  
**CORPORATION**



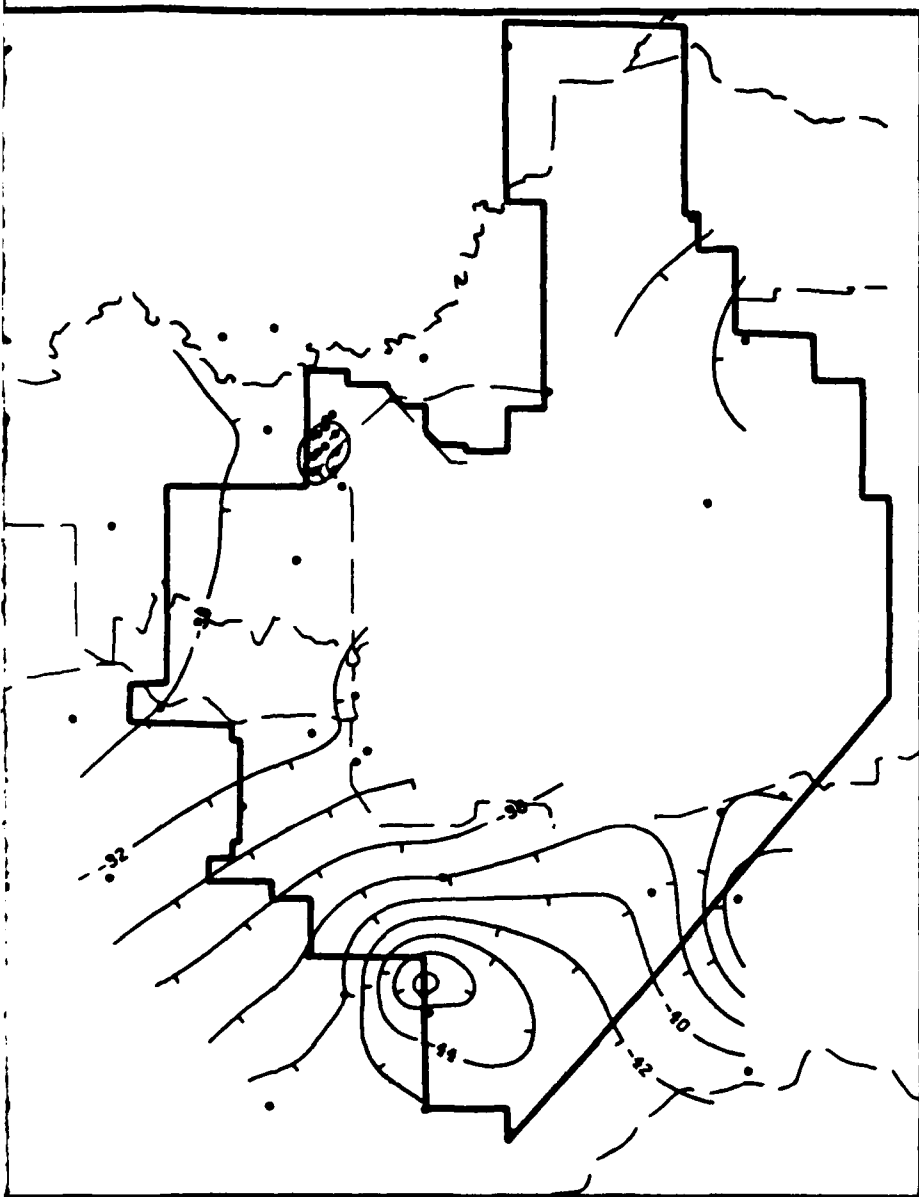
**Water Levels in Middle Monitoring Wells 10/86**



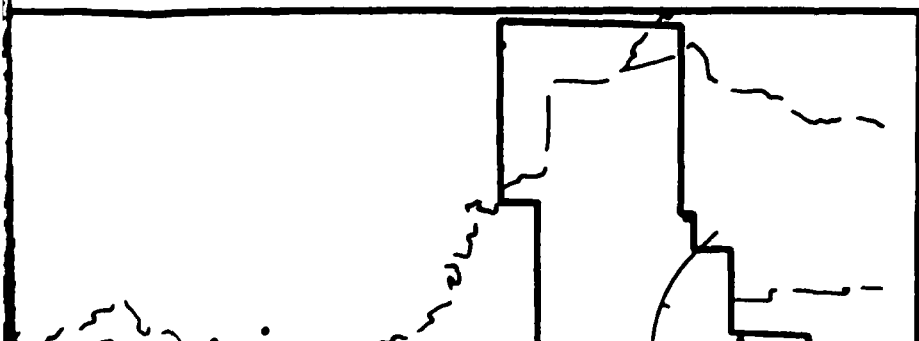
**Water Levels in Middle Monitoring Wells 1/88**



**Water Levels in Middle Monitoring Wells 10/87**



**Water Levels in Middle Monitoring Wells 10/88**



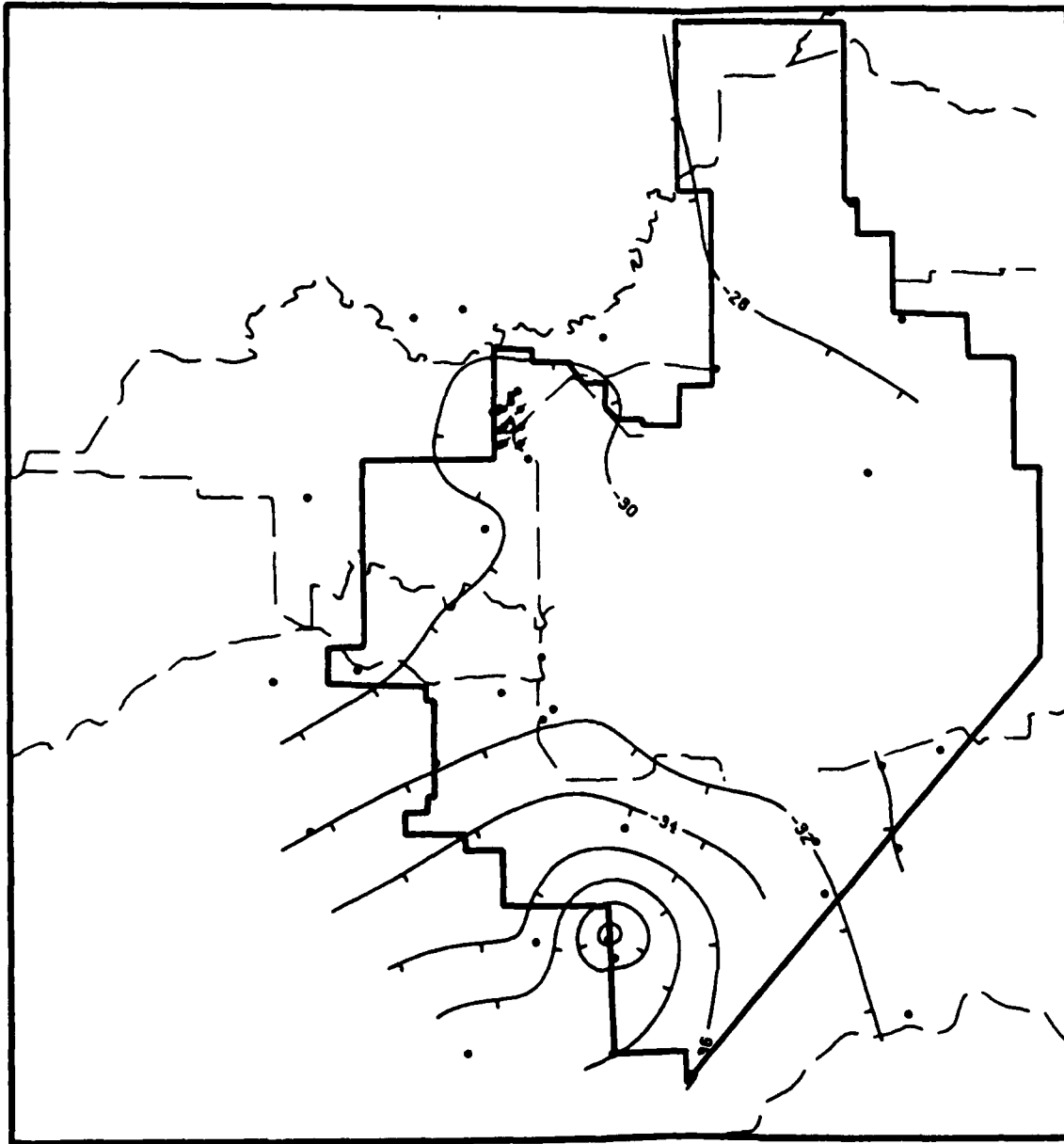
**Plate 3.  
Potentiometric Maps for  
the Middle Monitoring Zone**

**McClellan AFB  
Annual Technical Report  
(January - December 1988)**

**April 1989**

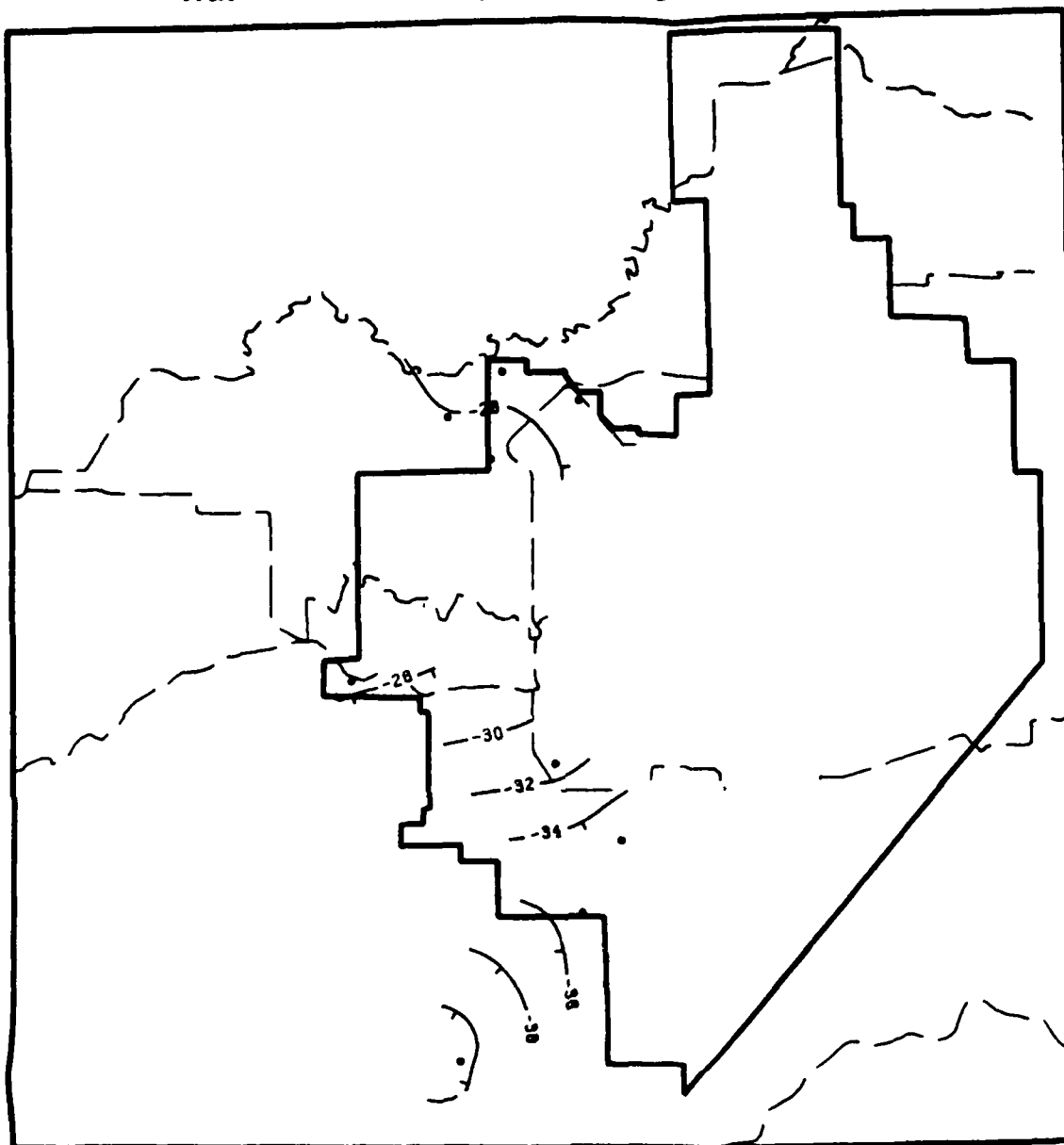
**LEGEND:**

Water Levels in Middle Monitoring Wells 1/88

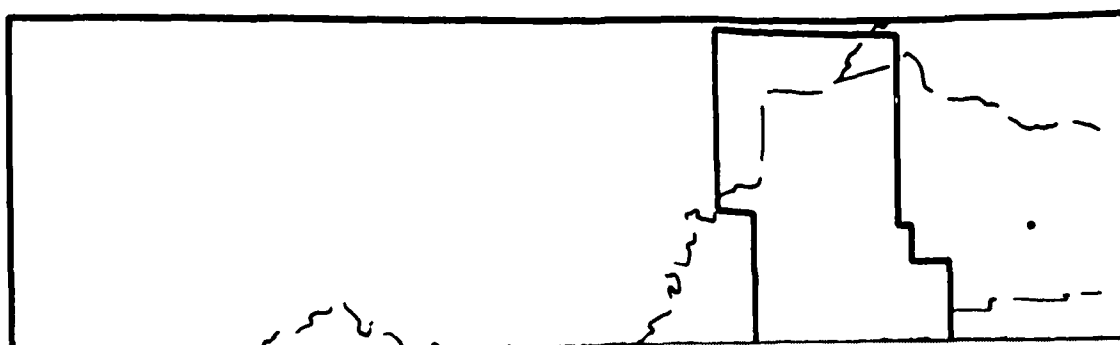




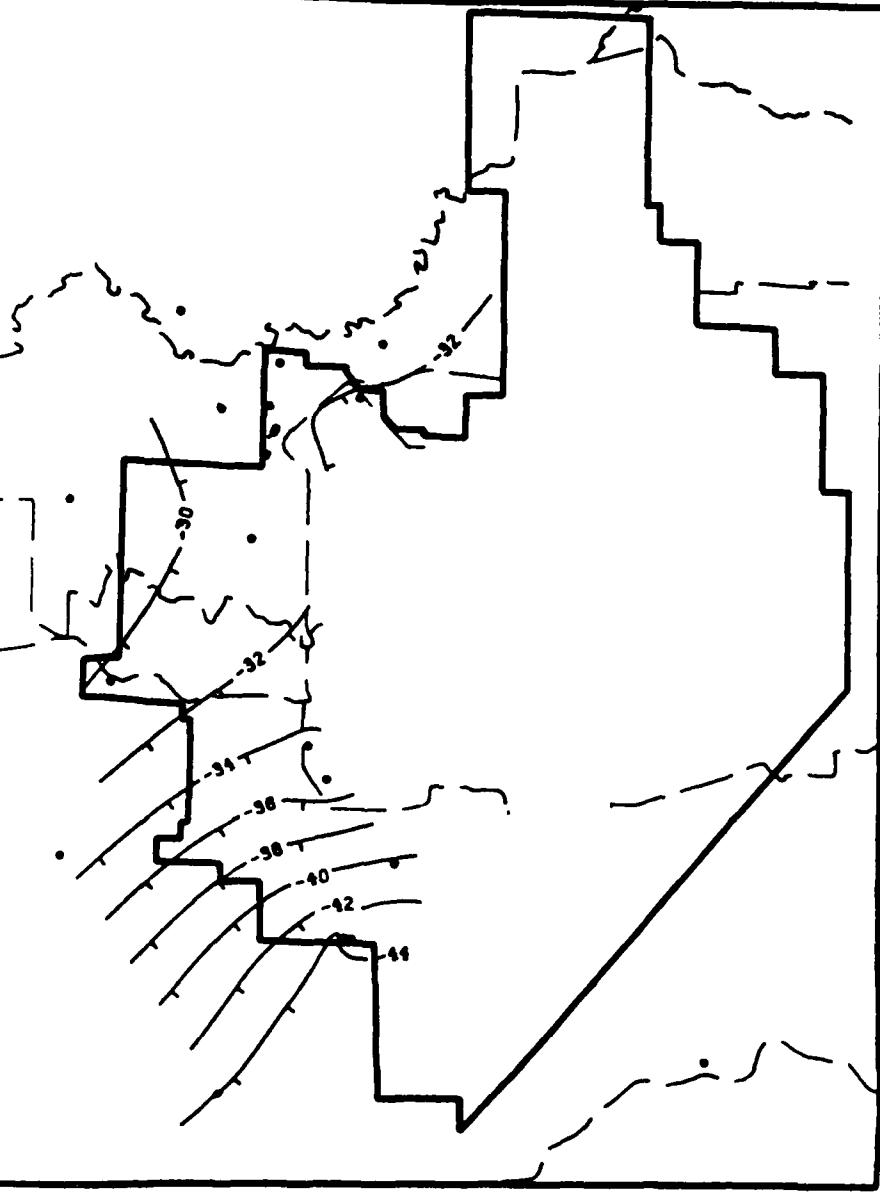
**Water Levels in Deep Monitoring Wells 10/86**



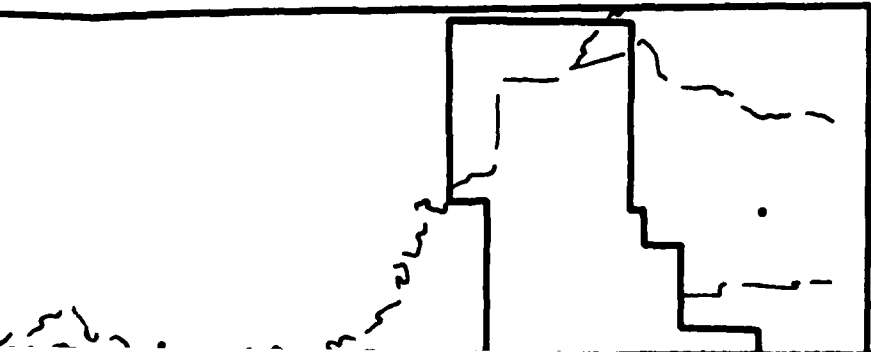
**Water Levels in Deep Monitoring Wells 1/88**



Water Levels in Deep Monitoring Wells 10/87



Water Levels in Deep Monitoring Wells 10/88



**Plate 4.**  
**Potentiometric Maps for**  
**the Deep "A" Monitoring Zone**

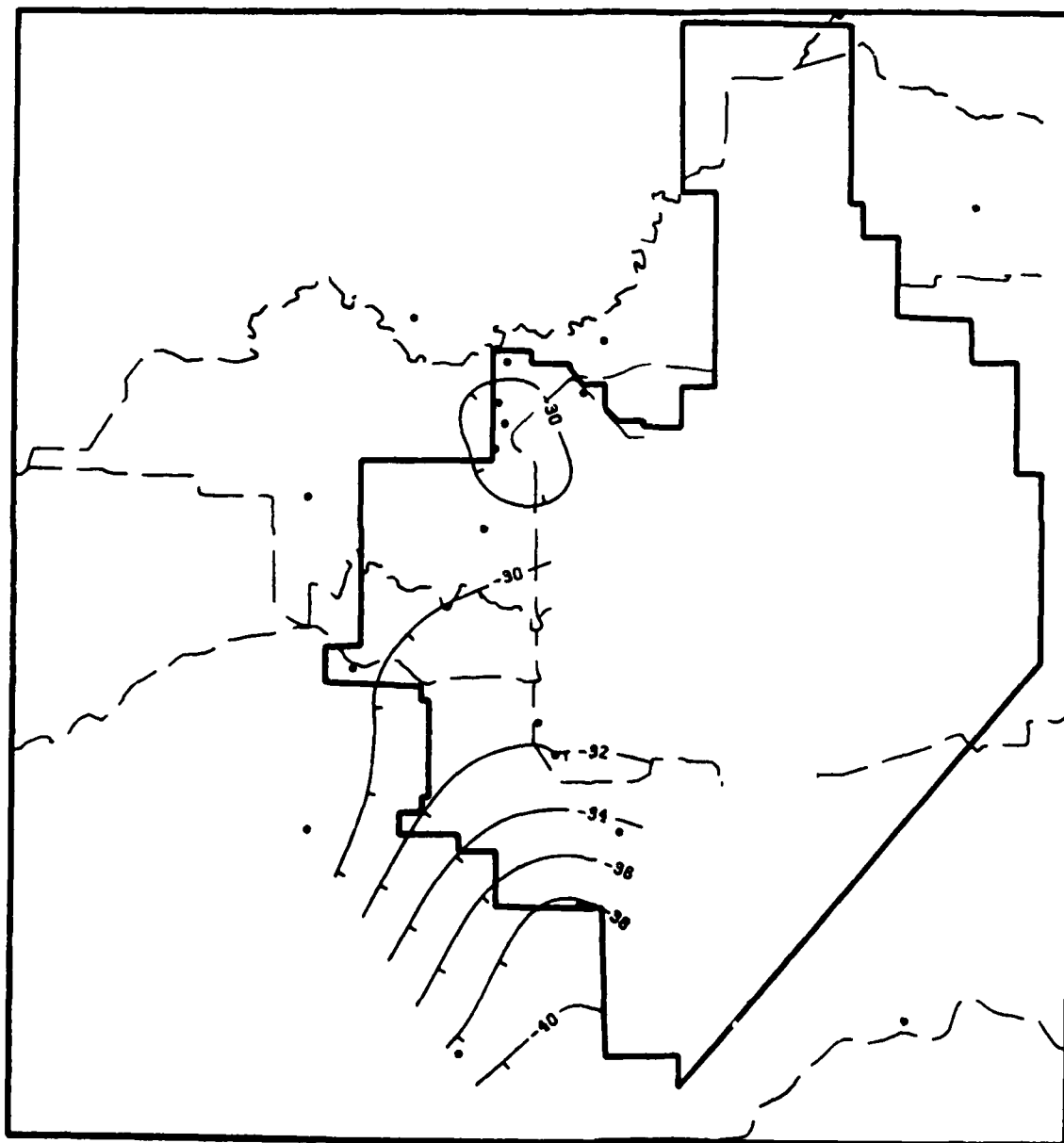
**McClellan AFB**  
**Annual Technical Report**  
**(January - December 1988)**

**April 1989**

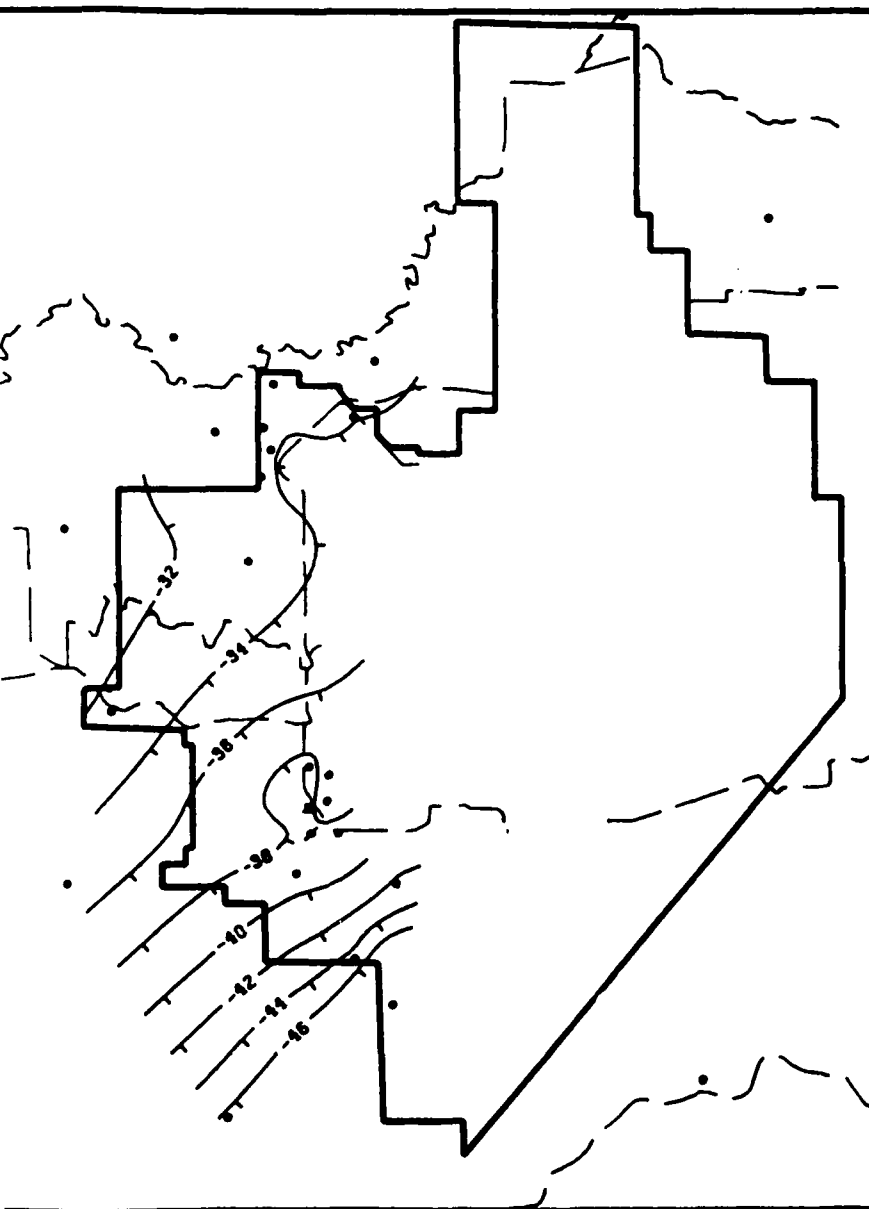
**LEGEND:**

McClellan AFB Boundary

Water Levels in Deep Monitoring Wells 1/88



er Levels in Deep Monitoring Wells 10/88



**Plate 4.**  
**Potentiometric Maps for**  
**the Deep "A" Monitoring Zone**

**McClellan AFB**  
**Annual Technical Report**  
**(January - December 1988)**

**April 1989**

**LEGEND:**

——— **McClellan AFB Boundary**

~~~~~ **Streams**

• **Monitoring Well**

⊗ **Extraction Well**

—30— **Contours of Equal**  
**Hydraulic Head**  
**(Note: Hash marks indicate**  
**groundwater flow direction.)**



0 1500 3000  
SCALE IN FEET

**RADIAN**  
**CORPORATION**





I ST.

G ST.

E ST.

C ST.

DRY CREEK

ASCOT

MW-1019  
0.86

MAGPIE CREEK

VINCI

CLAIRE

MW-1029  
1.9

MW-1041  
ND

MW-1005  
10.35

MW-1004  
2.4

MW-10  
1200

MW-1002  
0.25

MW-106  
ND

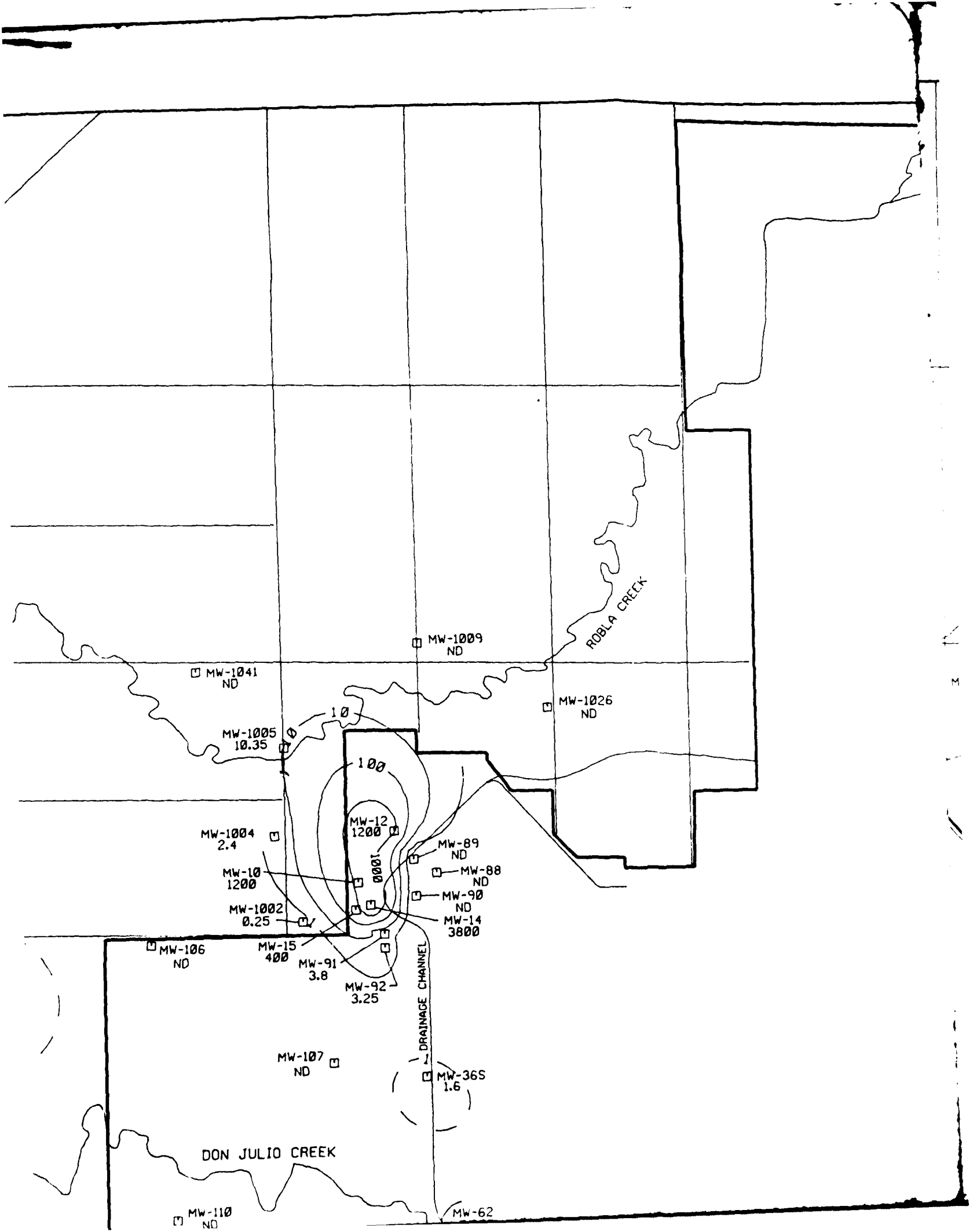
MW-15  
400

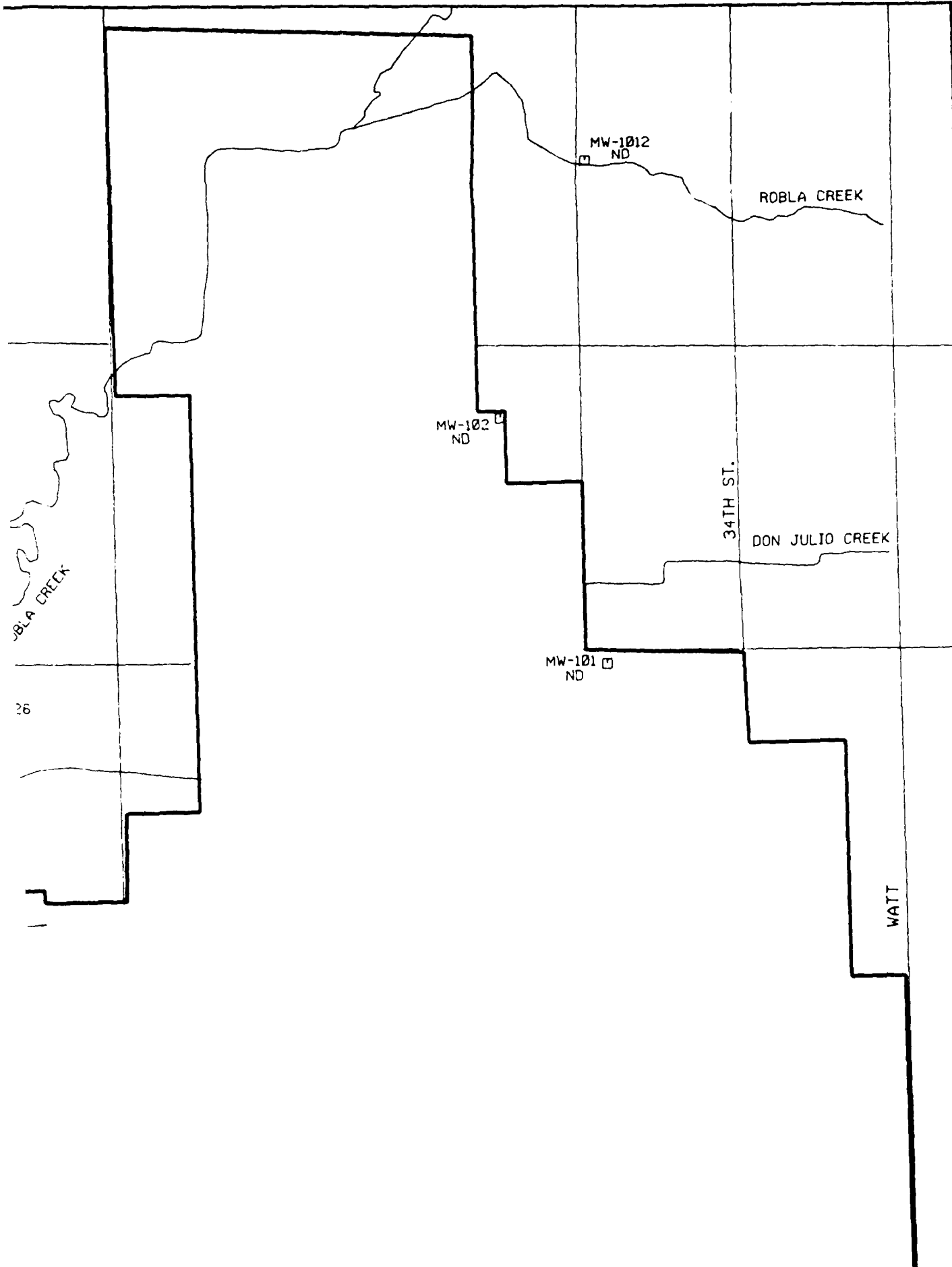
MW-91  
3.8

MW-107  
ND

DON JULIO CREEK

MW-110  
ND





BLA CREEK

MW-1012  
ND

ROBLA CREEK

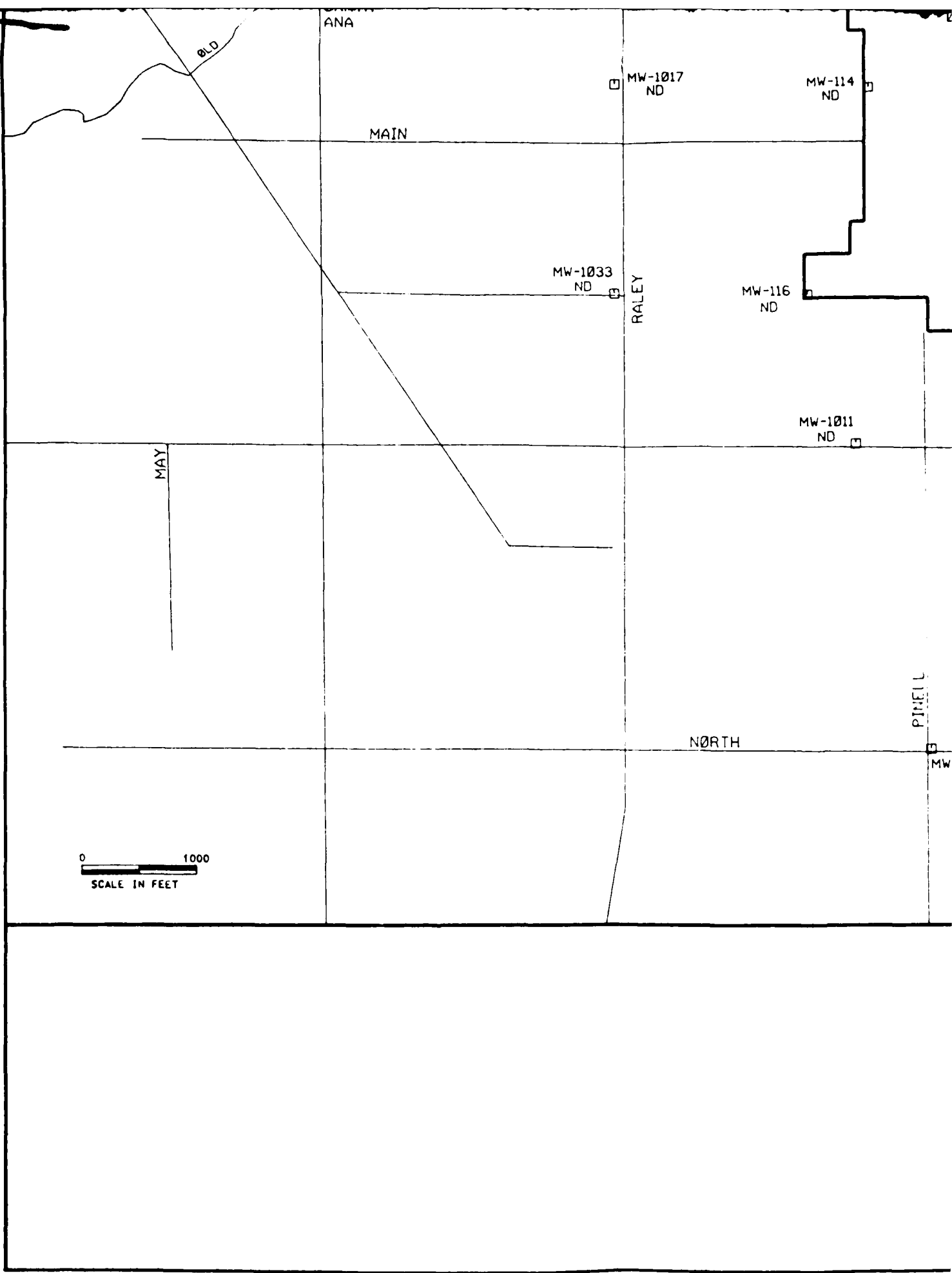
MW-102  
ND

34TH ST.

DON JULIO CREEK

MW-101  
ND

WATT



ANA

OLD

MW-1017  
ND

MW-114  
ND

MAIN

MW-1033  
ND

RALEY

MW-116  
ND

MW-1011  
ND

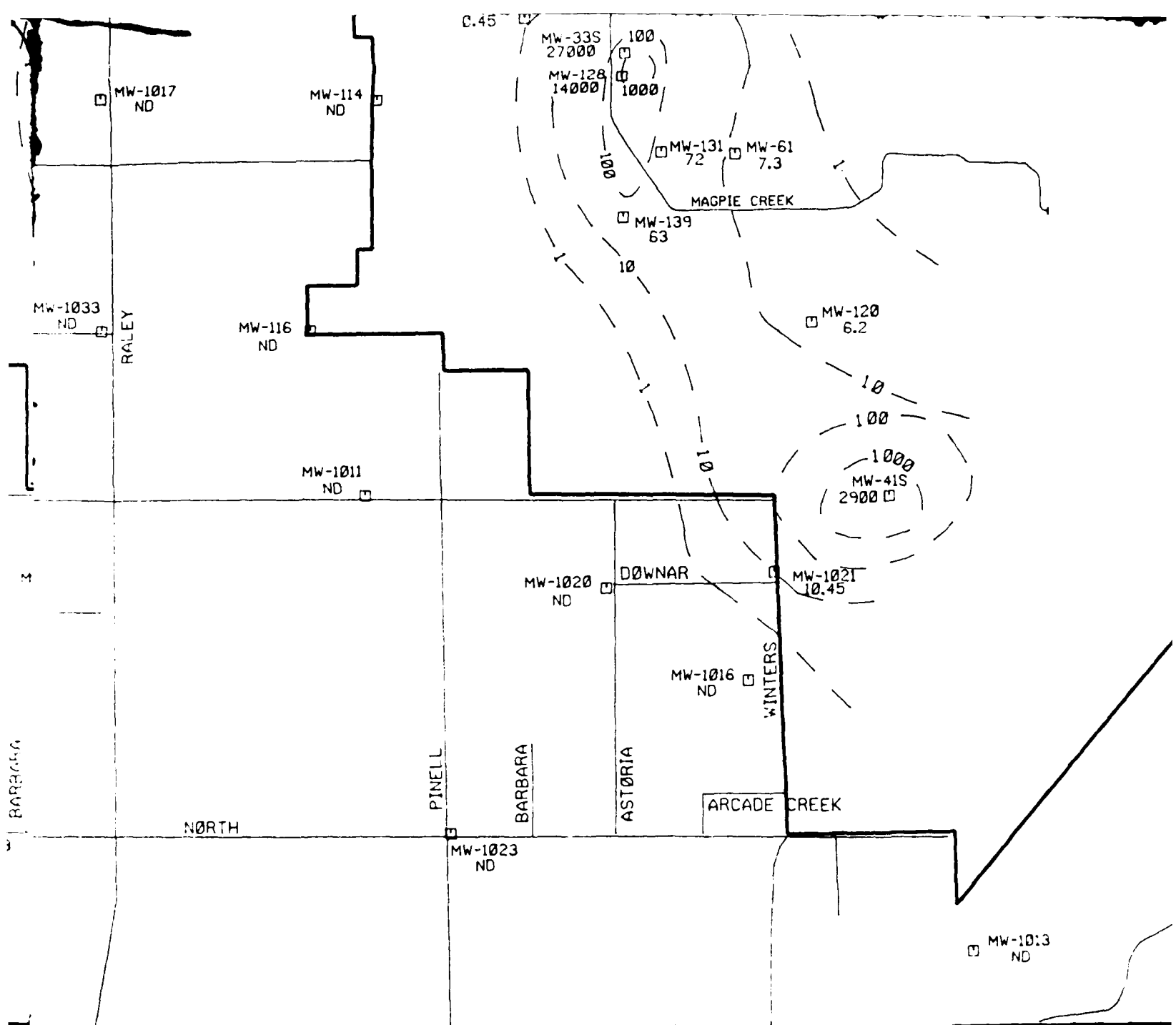
MAY

NORTH

PINE L

MW

0 1000  
SCALE IN FEET



## LEGEND



MONITORING WELL

2.5

TCE CONCENTRATIC



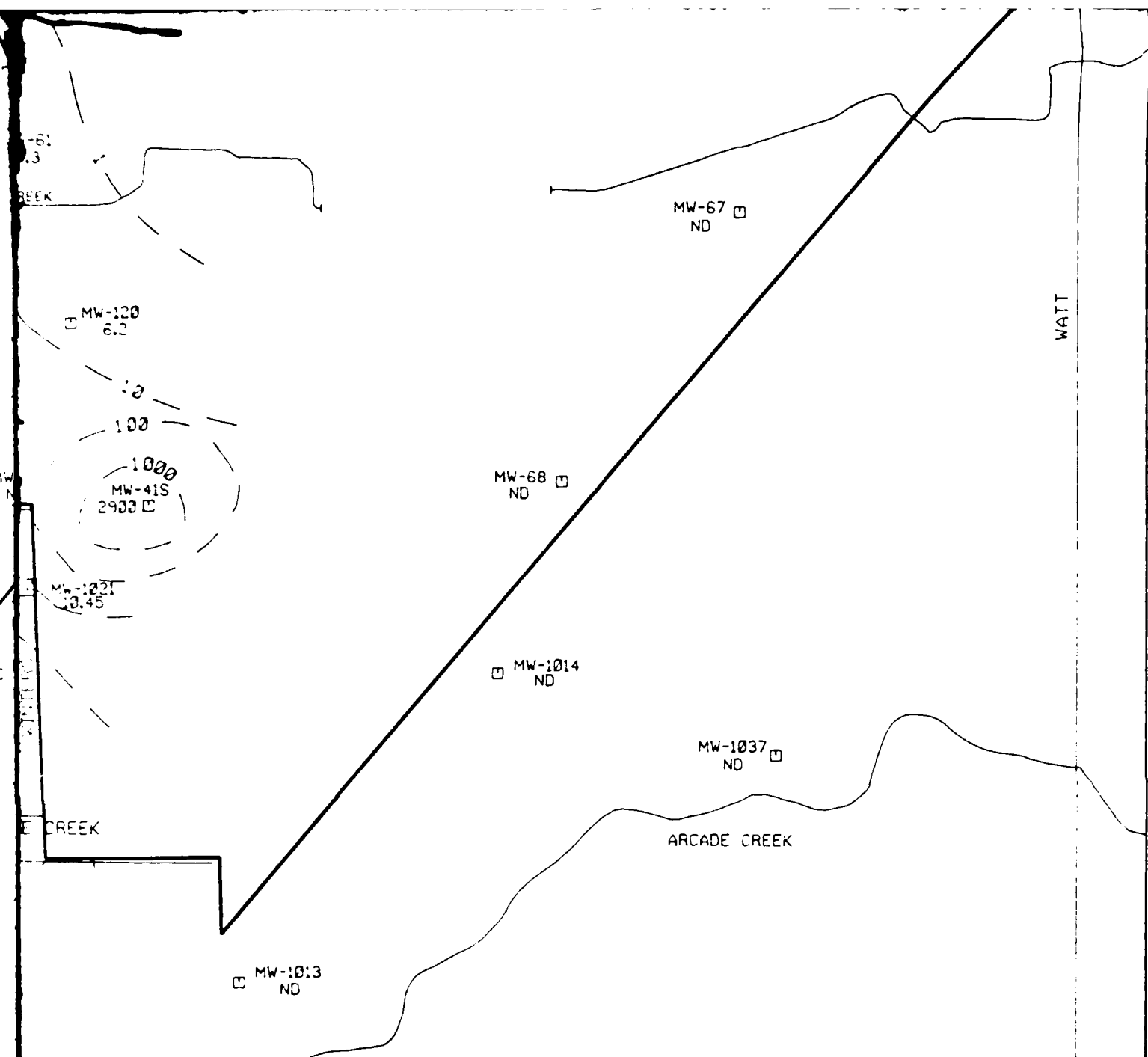
STREAMS



A.F.B. BOUNDARY



ESTIMATED LINES  
CONCENTRATION (OW  
THERE IS LACK OF



## LEGEND

- MONITORING WELL
- 2.5 TCE CONCENTRATIONS (ug/l)

~~~~~ STREAMS

———— A.F.B. BOUNDARY

--- ESTIMATED LINES OF EQUAL TCE CONCENTRATION (DASHED WHERE THERE IS LACK OF CONTROL)

### Plate 5. Estimated TCE Concentration Contours for the Shallow Monitoring Zone

McClellan AFB  
Annual Technical Report  
(January - December 1988)

April 1989

**RADIAN**  
CORPORATION



ELKHØRN

16TH ST.

20TH ST.

I ST.

G ST.

E ST.

C ST.

DRY CREEK

ASCØT

MAGPIE CREEK

VINCI

CLAIRE

MW-1030  
ND

MW-1042  
ND

MW-1003  
ND

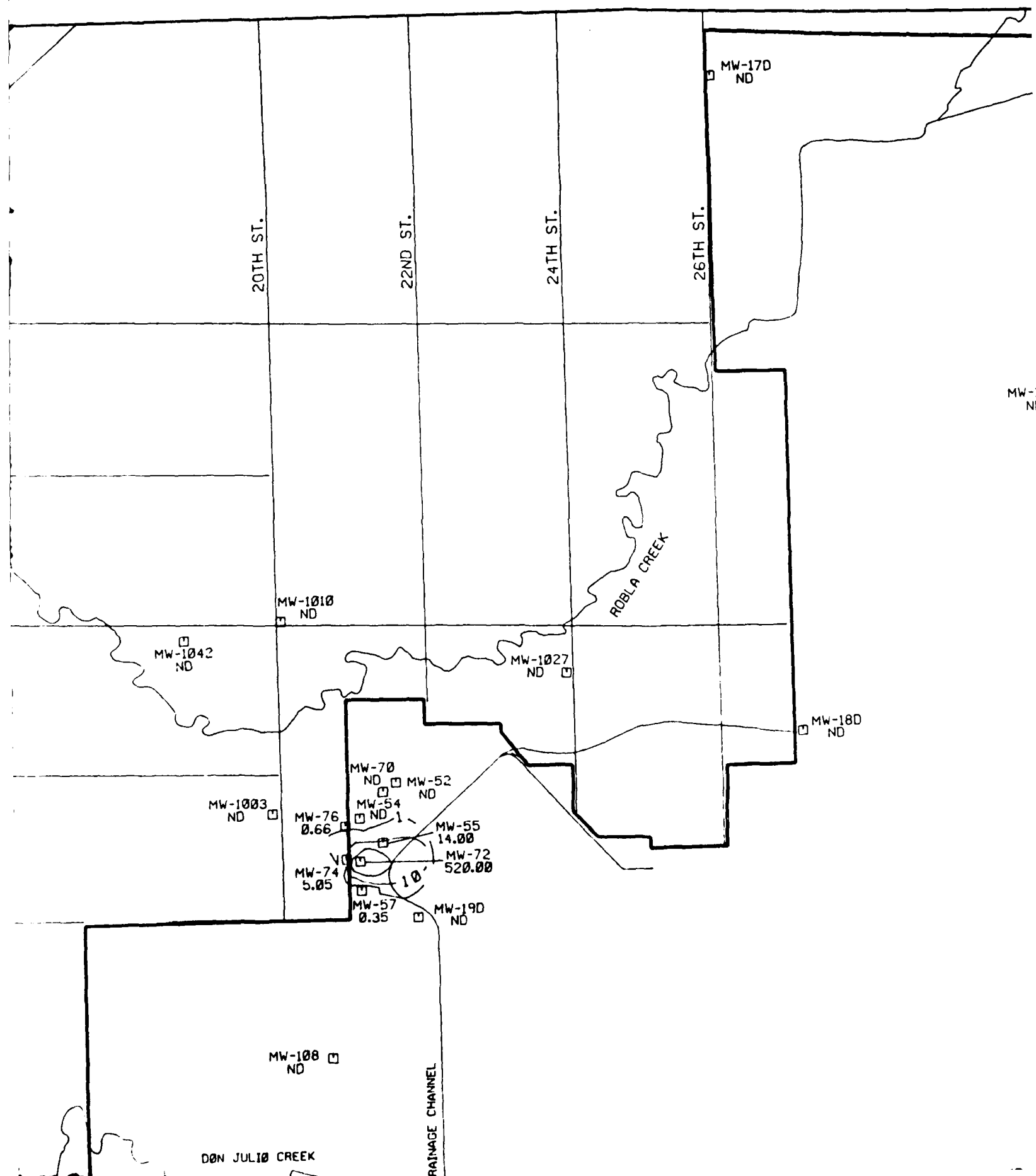
MW-12  
ND

MW-0.6

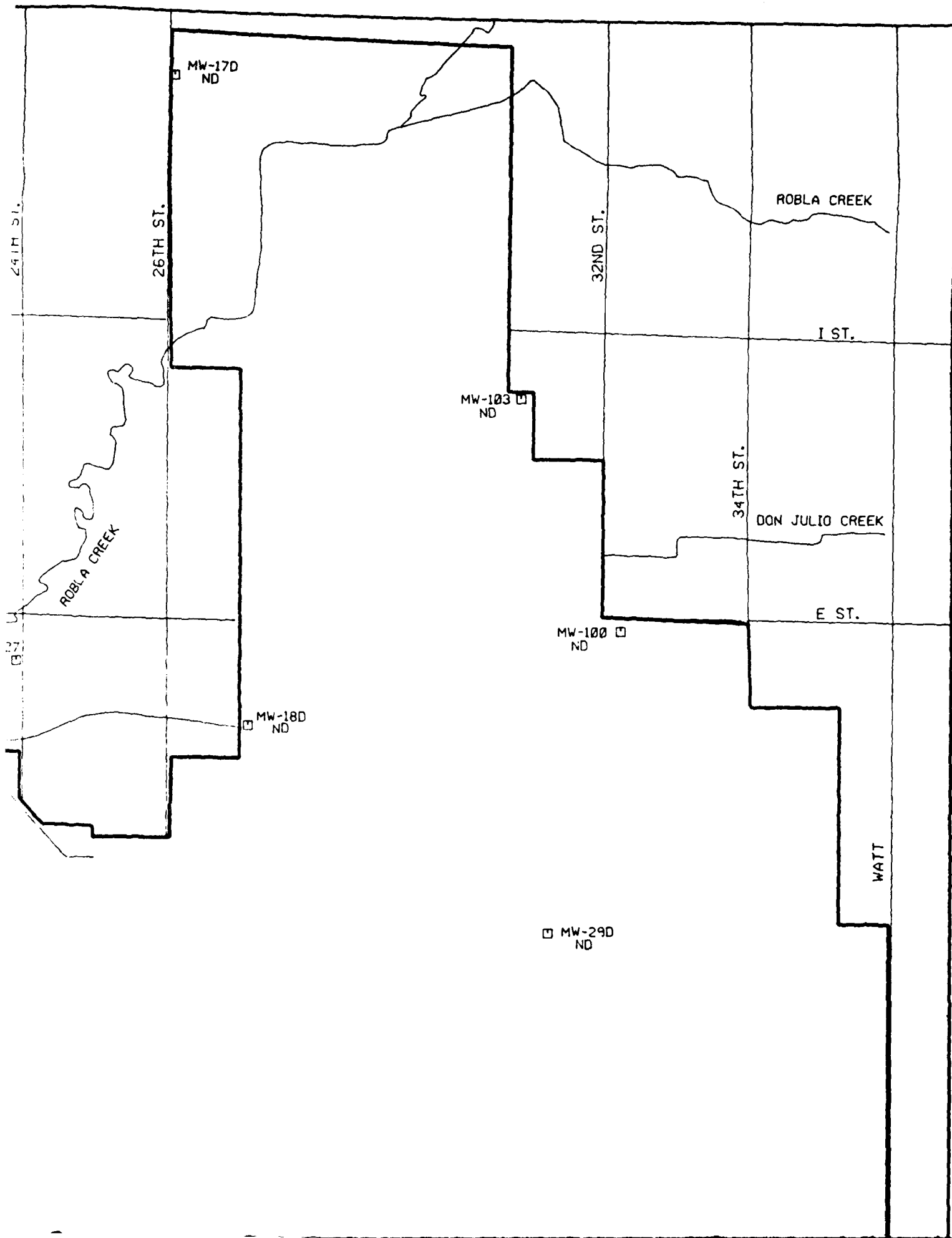
MW-5.2

MW-108  
ND

DON JULIO CREEK







ANA

ND

OLD

MAIN

MW-115  
ND

10

MW-1034  
ND

GRACE

RALEY

BELL

MAY

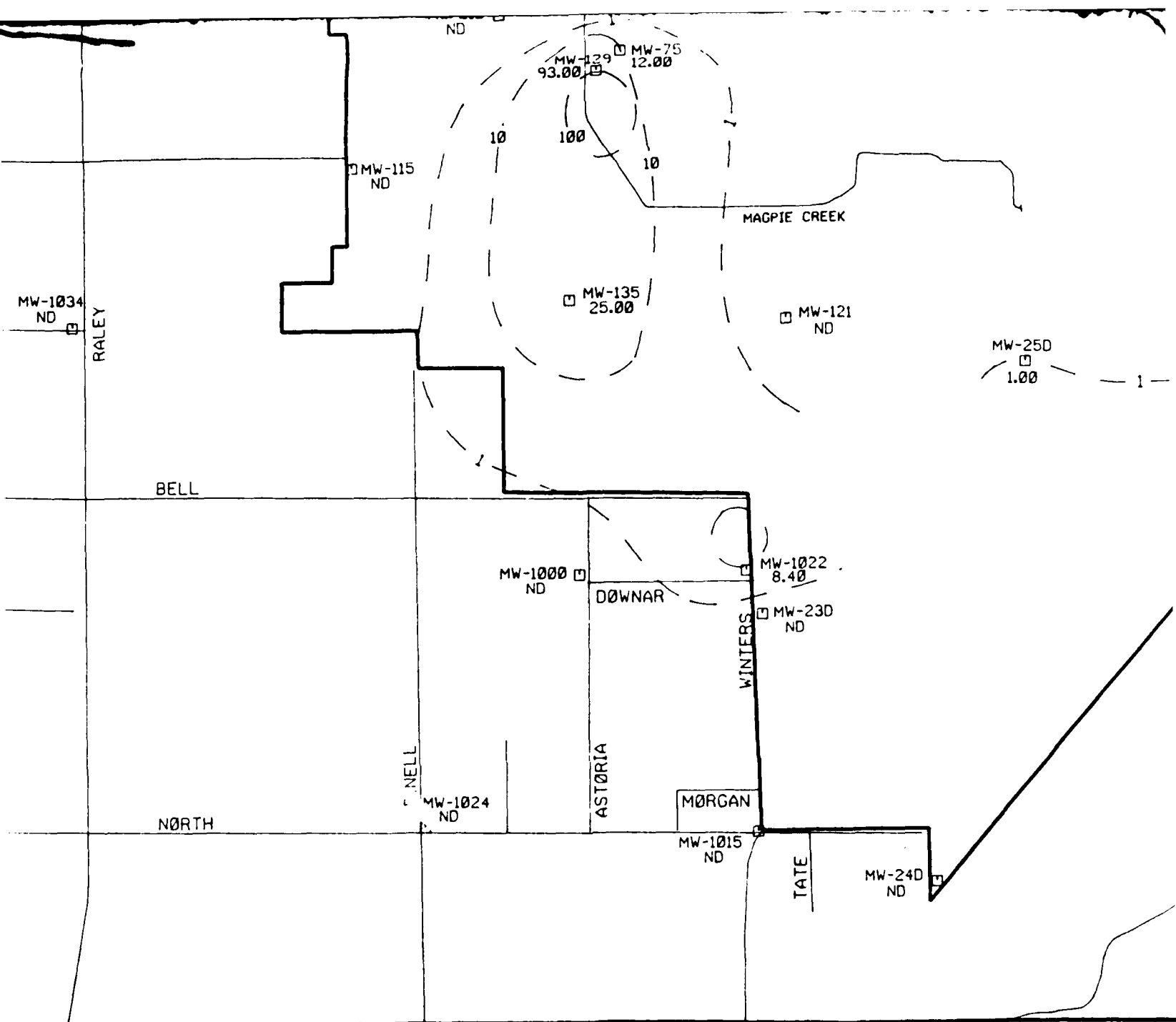
MV

PINELL

MW-1024  
ND

NORTH

0 1000  
SCALE IN FEET



## LEGEND

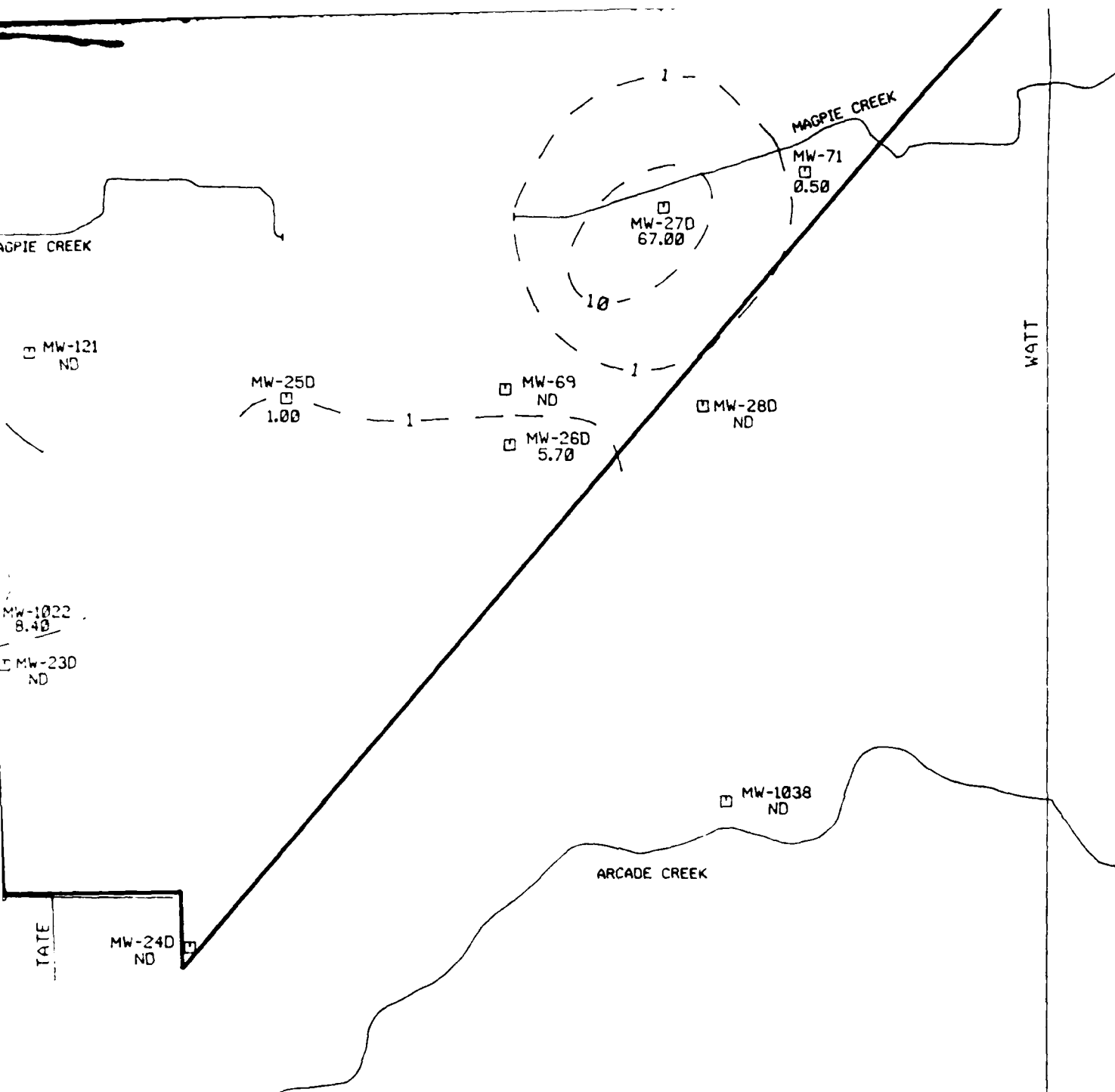
□ MONITORING WELL

2.5 TCE CONCENTRATIONS

~ STREAMS

— A.F.B. BOUNDARY

ESTIMATED LINES OF CONCENTRATION (DASHED)  
THERE IS LACK OF CON



## LEGEND



MONITORING WELL

2.5

TCE CONCENTRATIONS ( $\mu\text{g/l}$ )



STREAMS



A.F.B. BOUNDARY



ESTIMATED LINES OF EQUAL TCE  
CONCENTRATION (DASHED WHERE  
THERE IS LACK OF CONTROL)

### Plate 6. Estimated TCE Concentration Contours for the Middle Monitoring Zone

McClellan AFB  
Annual Technical Report  
(January - December 1988)

April 1989

**RADIAN**  
CORPORATION



I ST.

G ST.

F ST.

C ST.

DRY CREEK

ASCOT

MAGPIE CREEK

VINCI

CLAIRE

□ MW-1043  
ND

MW-1001 ( )  
ND

□ MW-1031  
ND

DON JULIO CREEK

MW-1012

( ) MW-1014

MW-1015

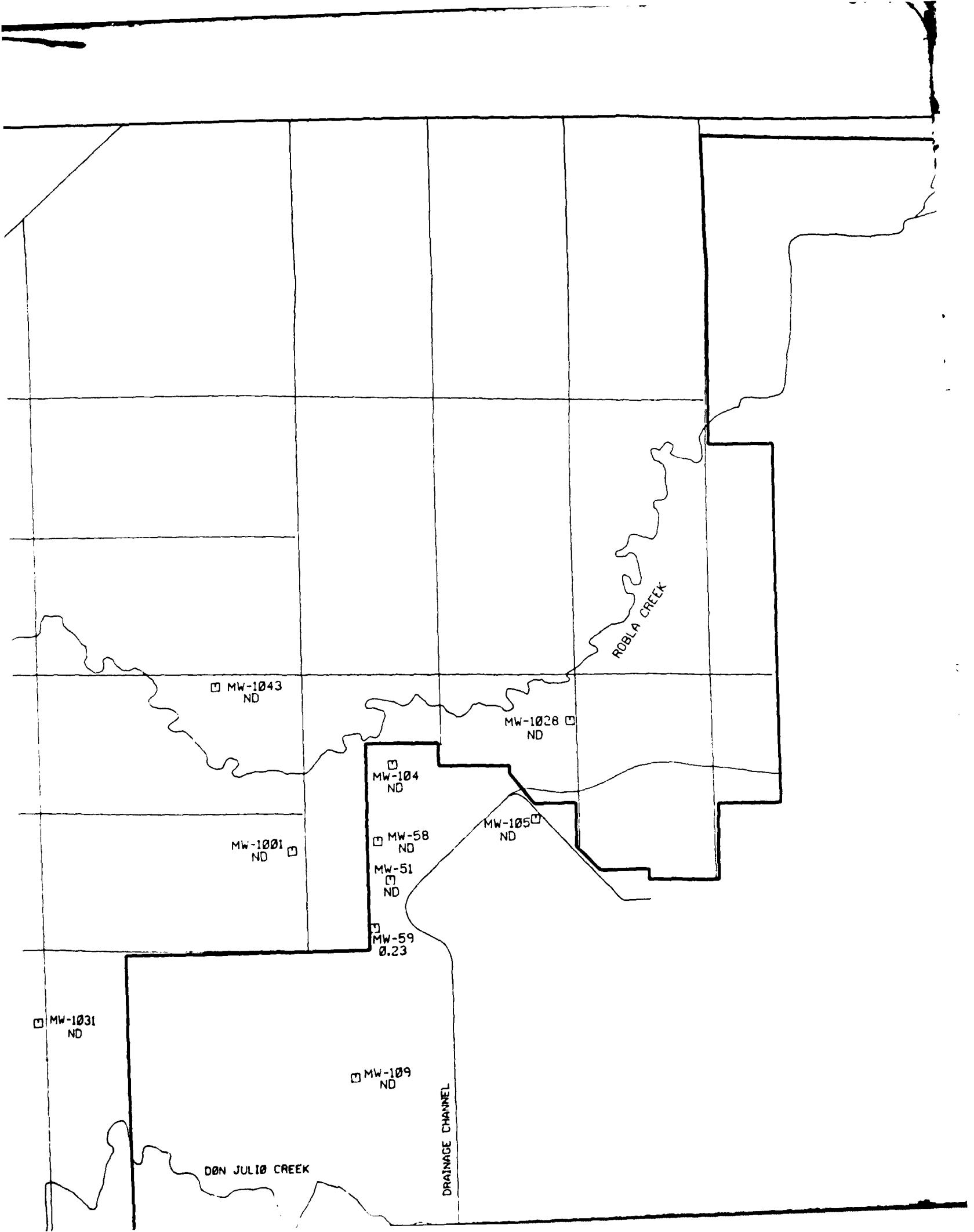
( ) ND

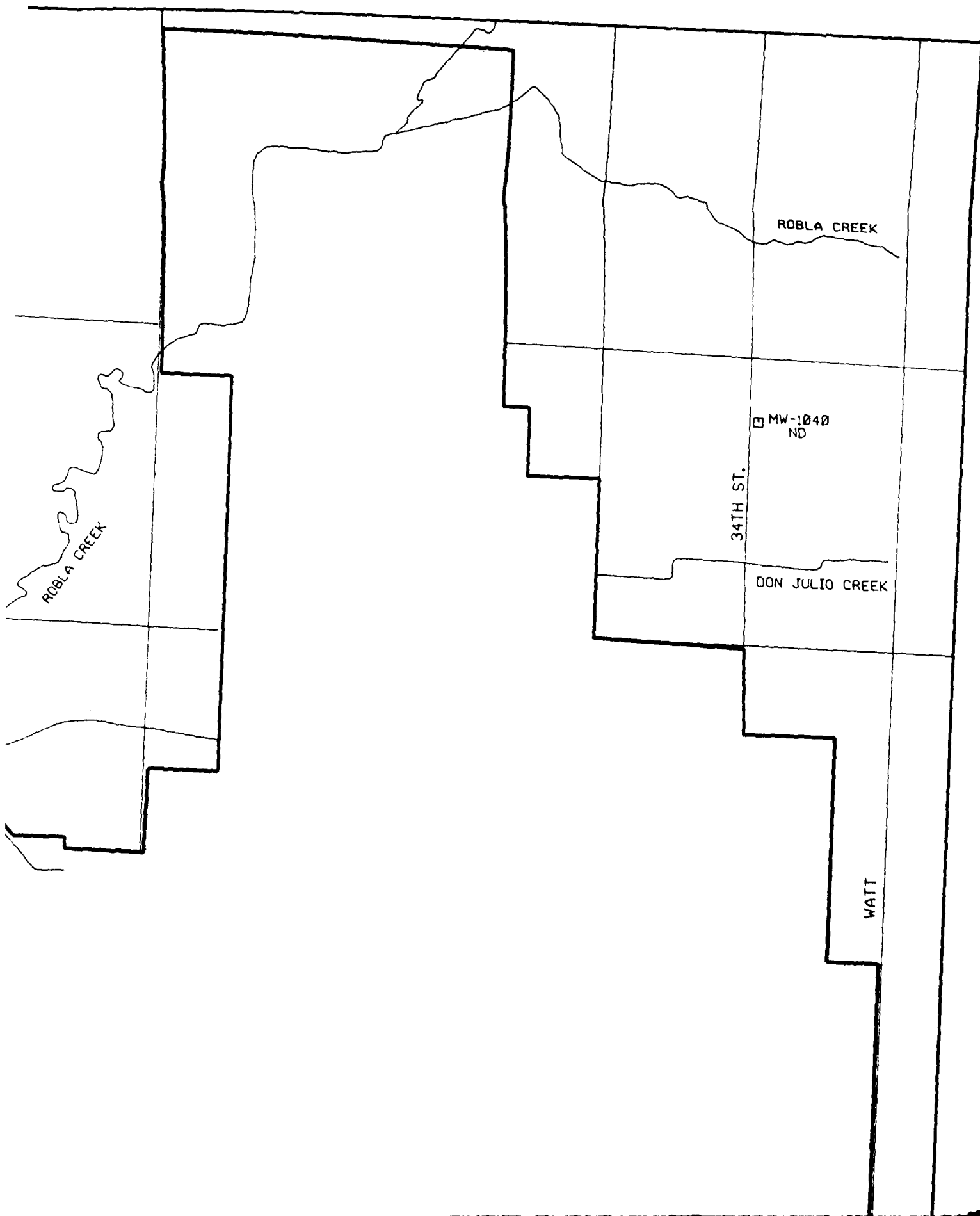
( ) MW-1016

( ) ND

( ) MW-1017

( ) ND





SANTA  
ANA

OLD

MAIN

GRACE

MW-1035  
ND

RALEY

BELL

MAY

NORTH

PINELL

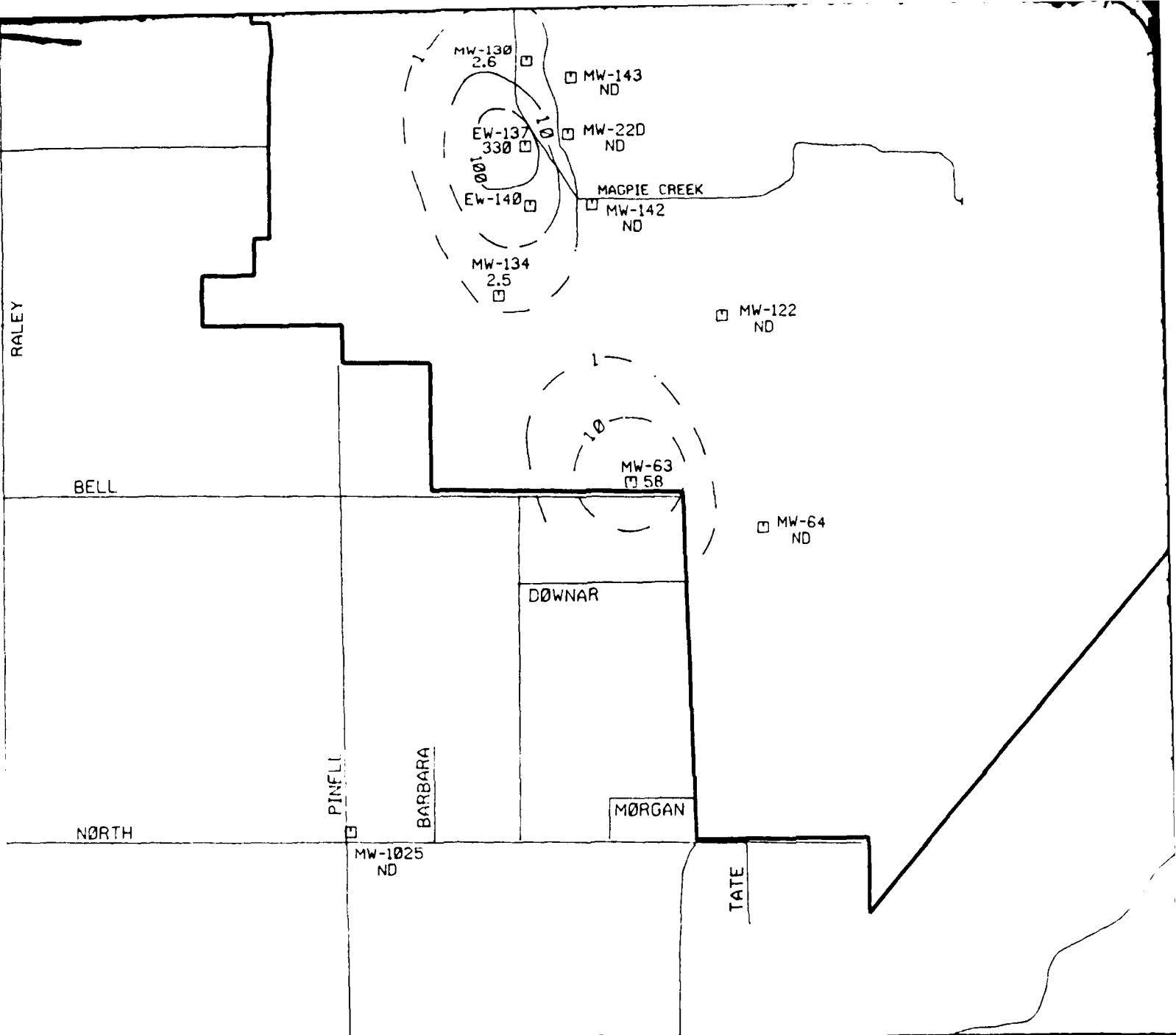
BARBARA

MW-1025  
ND

0 1000  
SCALE IN FEET

4-16  
ND





## LEGEND



MONITORING WELL

2.5

TCE CONCENTRATIONS ( $\mu\text{g/l}$ )



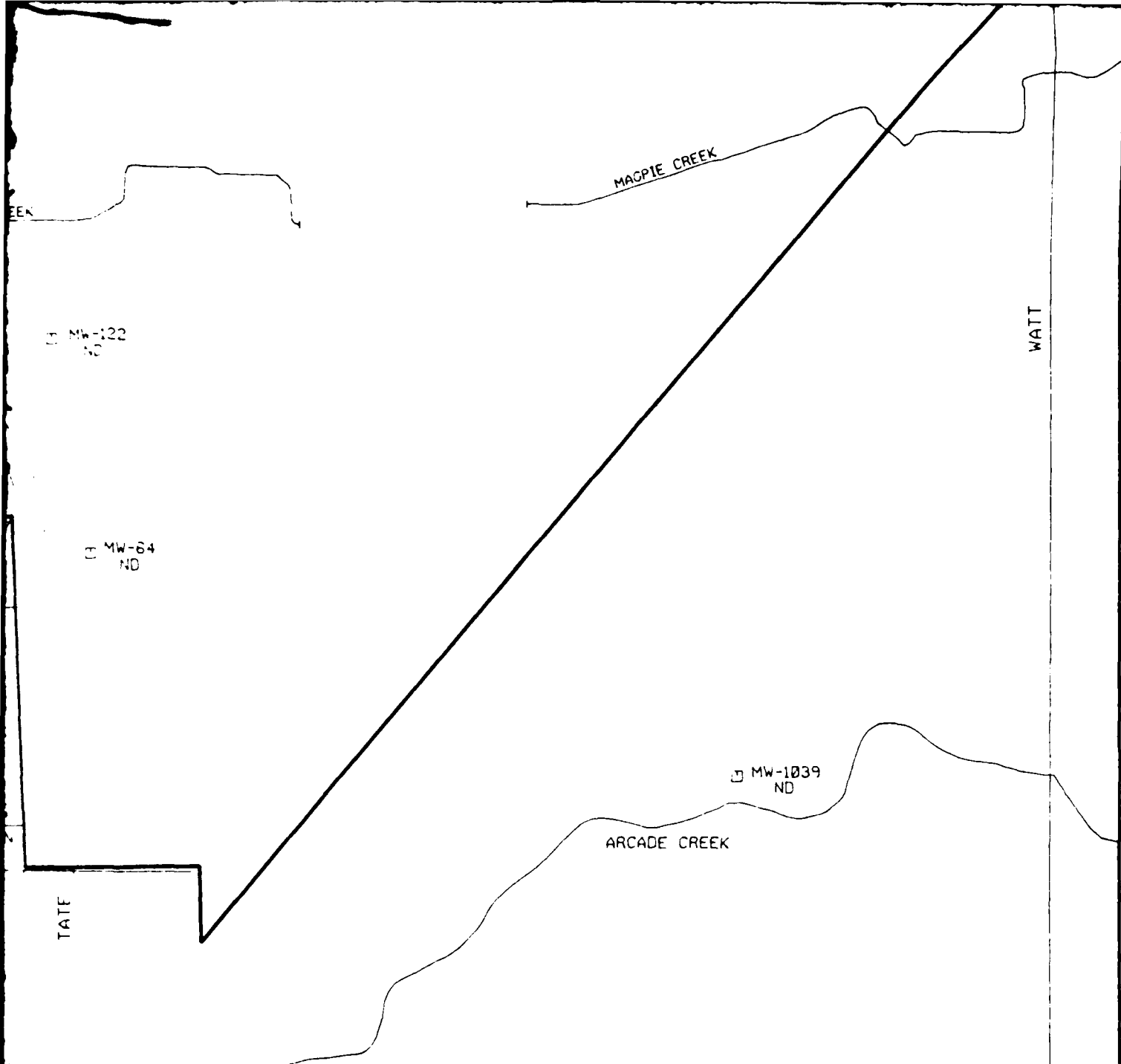
STREAMS



A.F.B. BOUNDARY



ESTIMATED LINES OF EQUAL  
CONCENTRATION (DASHED WHEN  
THERE IS LACK OF CONTROL)



## LEGEND



MONITORING WELL

2.5

TCE CONCENTRATIONS ( $\mu\text{g/l}$ )



STREAMS



A.F.B. BOUNDARY



ESTIMATED LINES OF EQUAL TCE  
CONCENTRATION (DASHED WHERE  
THERE IS LACK OF CONTROL)

### Plate 7. Estimated TCE Concentration Contours for the Deep Monitoring Zone

McClellan AFB  
Annual Technical Report  
(January - December 1988)

April 1989

**RADIAN**  
**CORPORATION**